



CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WASTEWATER TREATMENT

Piedmont Regional Office

MAR 28 2013

RECEIVED

March 25, 2013

Mr Michael Murphy
Regional Director
Piedmont Regional Office
Virginia Department of Environmental Quality
4949-A Cox Road
Glen Allen, VA 23060-6295

Subject City of Richmond, Virginia
VPDES Permit No VA0063177
Combined Sewer System Annual Report for 2012

Dear Mr Murphy

Submitted herewith are two copies of the subject report in compliance with Section E, Combined Sewer System of the City's VPDES Permit

If you have any questions or require additional information, please feel free to call at (804) 646-8903

Yours very truly,

A handwritten signature in black ink, appearing to read "Clair Watson", with a stylized flourish at the end.

Clair Watson
Operations Manager

Enclosures

cc Emilee Carpenter, DEQ
Frank Lupini, DEQ (Disk only)
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Jan Wyatt



VPDES Permit No. VA 0063177

Combined Sewer System Annual Report for 2012

**City of Richmond, Virginia
Department of Public Utilities**

March 2013

Combined Sewer System Report for 2012

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Combined Sewer System Report for 2012

Section 1 Introduction and Summary

1.1 Introduction

The City of Richmond (City), capital of Virginia, is located astride the James River along the Falls of the James as shown on Figure 1-1. The City provides public wastewater collection and treatment services for the City and immediately adjacent areas in Henrico and Chesterfield Counties.

The City has a land area of about 38,000 acres and a population of about 205,500 persons. The wastewater collection and treatment facilities serve a population of about 216,000 persons.

The older central part of the City was built with combined sewers and areas outside the combined sewer system (CSS) area are served by separate sanitary and storm sewers.

1.1.1 Combined Sewer System – General

The City's CSS comprises approximately 12,000 acres or about 32 percent of the City. The area served by combined sewers is shown on Figure 1-2.

There are now 28 combined sewer overflow points (CSO outfalls as listed in Table 1-1).

The CSS areas and individual CSOs are shown on Figure 1-3.

1.1.2 Combined Sewer System – Facilities and Operation

A system of intercepting and trunk sewers links the separate and combined systems with the Richmond wastewater treatment plant (WWTP). This system is shown on Figure 1-4. There is a mechanical or hydraulic control regulator structure at each CSO. Typical regulator arrangements are shown on Figures 1-5 and 1-6, respectively, for mechanical and hydraulic designs. Each regulator diverts all dry weather flow (DWF) to the WWTP. During wet weather events, each regulator diverts flow in excess of DWF to capture combined flow for treatment to the extent possible. Each CSO regulator facility has capacity to divert to the intercepting sewer for conveyance to the WWTP for complete treatment well in excess of three (3) times DWF.

The CSS also includes a 45.0 mg retention facility on the Shockoe Creek CSO Area. This facility (Shockoe Retention Basin) captures the first 45.0 mg of combined sewer wet weather flow and provides complete screening for flow rates greater than 5000 cfs (3232 mgd). In May 2003, the Hampton/McCloy CSO Retention Tunnel was placed on line (Division 4 and 5). This facility (Hampton/McCloy CSO Retention Tunnel) captures the first 7.2 mg of combined sewer wet weather flow in the Hampton/McCloy CSS basins with complete screening. The WWTP is designed to empty retained flow from the retention basin and tunnel within 48 hours following after CSO treatment conditions cease to exist and treat the retention basin flow plus collection system flow to permit limits. A location plan of the wastewater treatment facilities, Shockoe retention facilities, and Hampton/McCloy CSO Retention Tunnel is shown on Figure 1-7 and a diagram of the Shockoe retention facilities and WWTP is shown on Figure 1-8A through 1-8F. A diagram of the Hampton/McCloy CSO Retention Tunnel is shown on Figure 1-9.

Combined Sewer System Report for 2012

1.1.3 VPDES Permit

On March 21, 2005, the Office of Permit Support (OPS) of the Virginia Department of Environmental Quality (VDEQ) issued VPDES Permit No. VA0063177 authorizing the Richmond WWTP to discharge into the James River in accordance with the effluent limitations, monitoring requirements and other conditions set forth in the permit. One of the conditions stipulated in the permit requires that the City must continue to implement and document operation and maintenance activities relative to the combined sewer overflows (CSO) and their effects on receiving water quality and shall submit an annual report by March 31st of each year documenting the following:

- Modeled results of the number and volume of overflows for each CSO outfall based on measured storm event data for the previous calendar year
- Results of the Shockoe Creek and James River Monitoring performed in accordance with the permit
- A summary of action taken during the previous calendar year for meeting the nine minimum controls

1.1.4 Nine Minimum Controls

The City's VPDES permit includes the following nine minimum controls:

USEPA Nine Minimum Controls	VPDES Permit No. 0063177
Proper Operations and Maintenance	Permit Part E 1 a
Maximize Use of Collection System for Storage	Permit Part E 1 b
Review and Modify Pretreatment Requirements	Permit Part E 1 c
Maximize Flow to the POTW for Treatment	Permit Part E 1 d
Eliminate Dry Weather Overflows	Permit Part E 1 e
Control Solids and Floatables in CSOs	Permit Part E 1 f and local program
Pollution Prevention	Permit Part E 1 g and local program
Public Notification	Permit Part E 1 h and local program
Monitoring	Permit Part E 1 i

This report documents the City's continued efforts to monitor and sample Shockoe Combined sewer area, to update both SWMM model and PULSEQUAL model, and to comply with the nine minimum controls.

Combined Sewer System Report for 2012

1.2 Summary

The CSS is administered by the City's Department of Public Utilities (DPU) who reports to the Chief Administration Officer. DPU staff is also supplemented by the use of private contractors. A memorandum of understanding (MOU) was prepared and distributed in February 1998 to all responsible agencies to assist the Division of Wastewater Treatment (DWT) to comply with VPDES Permit No.

0063177. The MOU outlined the nine minimum controls required by the permit, identified various City agencies and associated individuals responsible for implementing and documenting the nine minimum controls and formalized a reporting procedure to be used for centralizing the records for the preparation of an annual report. The MOU was utilized in completion of this annual report. The City's activities and programs have been documented in detail in the following sections of this report and are summarized in Table 1-2.

Table 1-1

**List of 28 CSO Outfalls
City of Richmond, Virginia**

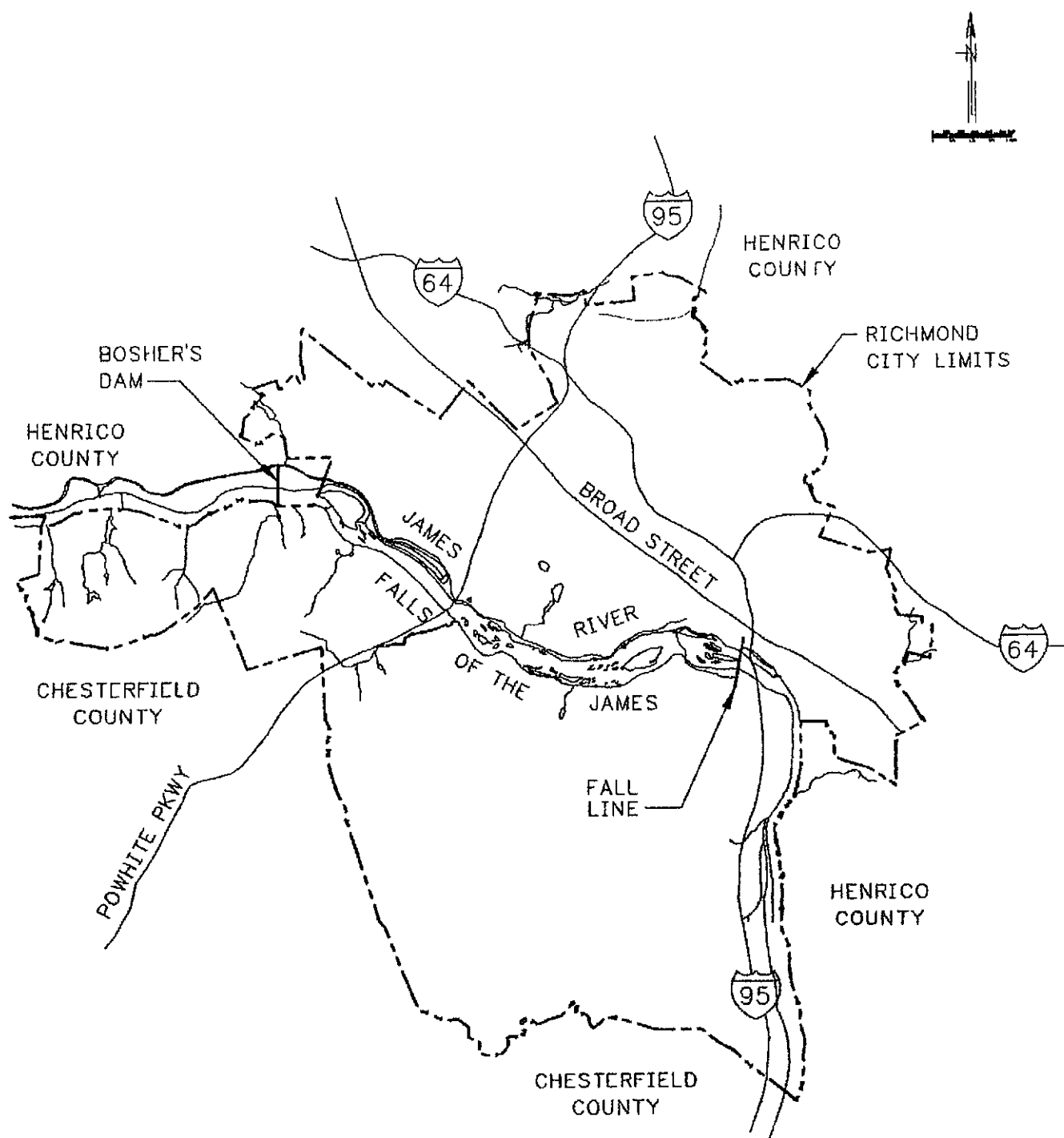
CSO Number	Combined Sewer Overflow Name	Receiving Water
Hampton Street CSO Area		
19	Hampton Street	James River
33	Shields Lake	Dooleys Branch
McCloy Street CSO Area		
20	McCloy Street	James River
Northside James River Park CSO Area		
7	Byrd Street	James River
9	6 th & 7th Streets	Haxall Canal
10	Gambles Hill	Haxall Canal
11	Park Hydro	James River
Southside James River Park CSO Area		
15	Canoe Run	James River
16	Woodland Heights	James River
17	Reedy Creek	James River
18	42nd Street	James River
40	CSO-1 Out/SSJRP	James River
Shockoe Creek CSO Area		
6	Shockoe Creek	James River
34	19th & Dock Street	Richmond Dock Canal
Wastewater Treatment Plant CSO Area		
14	Stockton Street	Manchester Canal
21	Gordon Avenue	James River
Gillies Creek CSO Area		
2	Orleans Street	James River
3	Nicholson Street	James River
4	Bloody Run	Gillies Creek
5	Peach Street	James River
24	Gillies & Varina Streets	Gillies Creek
25	Briel Street & Gillies Creek	Gillies Creek
26	Gov't Rd and NSRR	Gillies Creek
28	Williamsburg Road	Gillies Creek
31	Oakwood Cemetery	Stony Run
35	29th & Dock Streets	Richmond Dock Canal
39	Gov't Road and Gillies Creek	Gillies Creek
Hilton Street CSO Area		
12	Hilton Street	Almond Creek

Count 28

**CITY OF RICHMOND, VIRGINIA
ANNUAL REPORT**

**Table 1-2
Summary of Nine Minimum Control Measures**

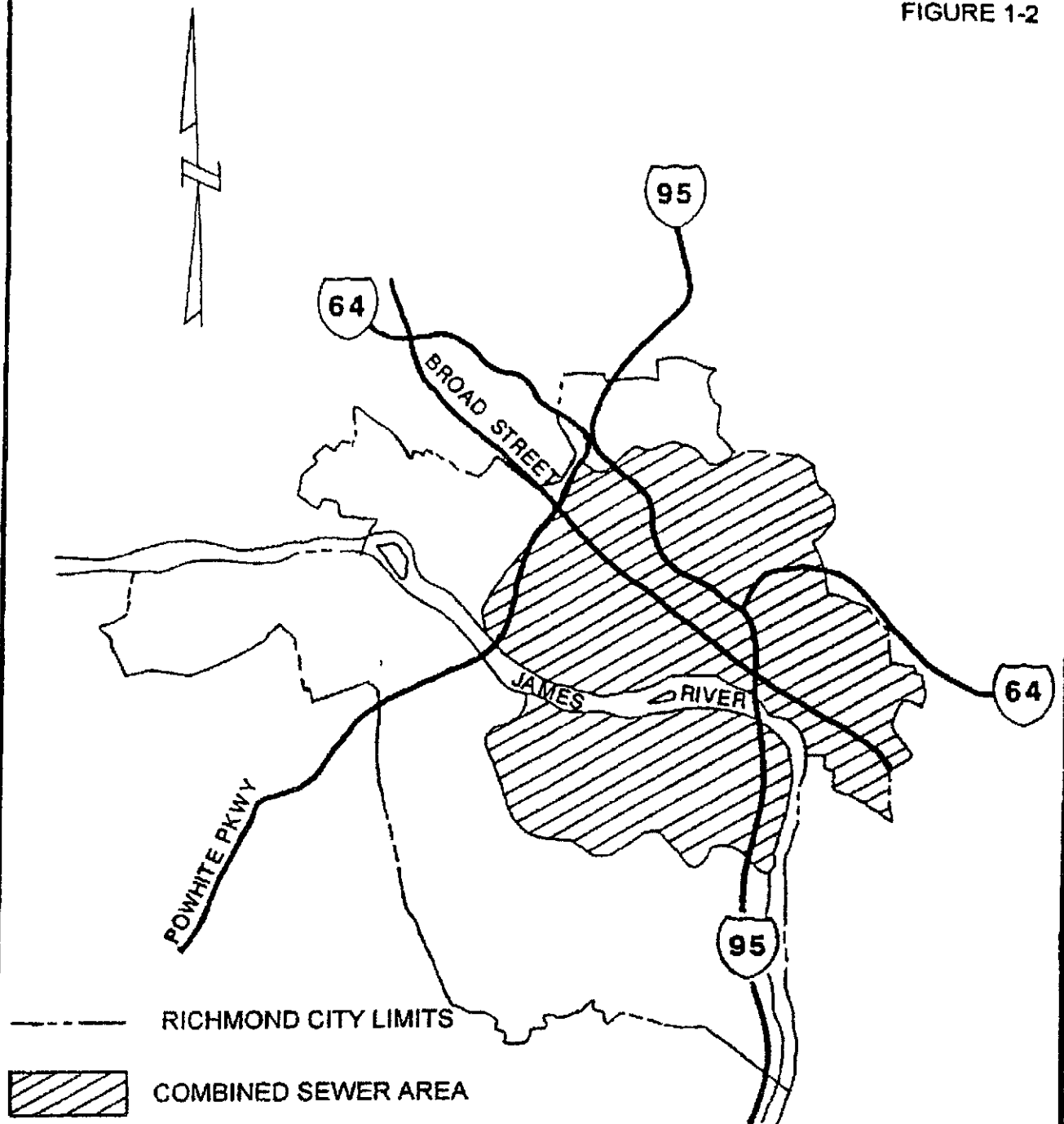
MINIMUM CONTROL	CONTROL MEASURES IMPLEMENTED
Proper Operation and Maintenance	<ul style="list-style-type: none"> • CSO control structures (e.g. regulators and tidegates) inspected and PM'd once per month • Pumping Stations inspected, screenings removed and PM'd daily • Regular program of sewer flushing
Maximize Use of Collection System for Storage	<ul style="list-style-type: none"> • CSO regulator controls set to optimize storage in intercepting system • Shockoe Retention System (55mg) serves about 8,000 acres of CSS and captures an average of about 1,416 mg of combined sewer flow annually (about 43.1 percent) of the total that would otherwise overflow. Retained flow receives complete treatment within 48 hours • Approximately 25,000 feet of sewer are relined annually to reduce I/I • WWTP influent pumping adjusted during wet weather events to fill intercepting system to level of lowest overflow • Tide gates adjusted and repairs made to control tidal intrusion • Public and private facilities required to install stormwater storage in combined sewer area • Floodwall pumping stations include excess flow holding ponds to maximize storage during flood periods
Review and Modify Pretreatment Requirements	<ul style="list-style-type: none"> • Pretreatment ordinance and program in effect • CSO modeling and analysis does not show any impacts that might be attributed to nondomestic sources • Several industries retain stormwater during wet weather events and control releases after the event to stay within pipe capacities • Discharge of water treatment plant residuals to the CSS is stopped during wet weather events
Maximize Flow to the POTW for Treatment	<ul style="list-style-type: none"> • Treatment rates at POTW are increased during wet weather events • POTW has high flow treatment plan designed to convey in excess of twice DWF through complete treatment during wet weather events • Retention facilities are emptied within 48 hours following a wet weather event • Retained flow receives complete treatment to permit limits
Eliminate Dry Weather Overflows (DWOs)	<ul style="list-style-type: none"> • Combined sewer diversion system design has capacity to convey in excess of 3 times DWF to WWTP • Diversion facilities inspected regularly and PM'd to insure they are in proper working order • Pumping stations are monitored to detect any DWOs caused by clogging or equipment malfunction • Shockoe retention facility continuously manned • DPU maintains a 24-hour on-call team responsible to respond to reported DWOs • No new combined sewers constructed inside or outside of the existing CSS area
Control of Solid and Floatable Materials in CSOs	<ul style="list-style-type: none"> • Continuous screening provided at Shockoe retention facility for over 2/3 of CSS • New combined sewer conveyance system (under construction) equipped with continuous self-cleaning solids and floatables capture facilities • Solids and floatables captured are removed at source or conveyed to WWTP for removal • Increased screening during leaf season/leaf pickup twice per season • Regular litter and annual free citywide litter cleanup programs • Regular street cleaning and downtown sidewalks scrubbing programs • Regular annual catch basin cleaning program
Pollution Prevention	<ul style="list-style-type: none"> • DPU has a regular public education program with facility tours including advice on proper disposal of substances (e.g. household wastes, leaves and use of fertilizer) • Adopt a Street and Clean City business awards programs • Pretreatment program includes awareness programs that encourage industrial waste reduction through recycling and improved housekeeping • DPU operates and maintains a septage receiving station • Ordinances designed to prohibit entrance of any substances that may impair or damage the function and performance of collection and treatment systems
Public Notification	<ul style="list-style-type: none"> • CSO control facilities under construction are expected to reduce overflows at public use/access areas of James River to an average of from 0 to 1 per year with remaining overflows expected in winter months (e.g. high river flows, little public activity). If greater CSO exposure is subsequently identified, signs to be posted are evaluated for installation • Numerous public meetings and hearings have been held to provide the public information and obtain public input on the CSS CSOs and control program • Community meetings have been held to inform local groups on proposed control facilities • Local press coverage of CSO program developments is continuing
Monitoring	<ul style="list-style-type: none"> • Conduct flow monitoring and wet weather overflow sampling for the Shockoe Creek outfall (006) combined sewer area once per permit cycle. Report is provided to VDEQ • A twice weekly and wet weather event instream monitoring/sampling program will be conducted on the James River for dissolved oxygen, temperature, pH and fecal coliform once per permit cycle • A complete SWMM based (sewer overflow model, SOM) hydraulic model has been created for the CSS. A CSO impact model has been developed for the tidal James River (PULSEQUAL). Both models will be updated and verified using the monitoring and sampling data once per permit cycle



CITY OF RICHMOND - LOCATION MAP

CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES
CSS ANNUAL REPORT
MARCH 1998

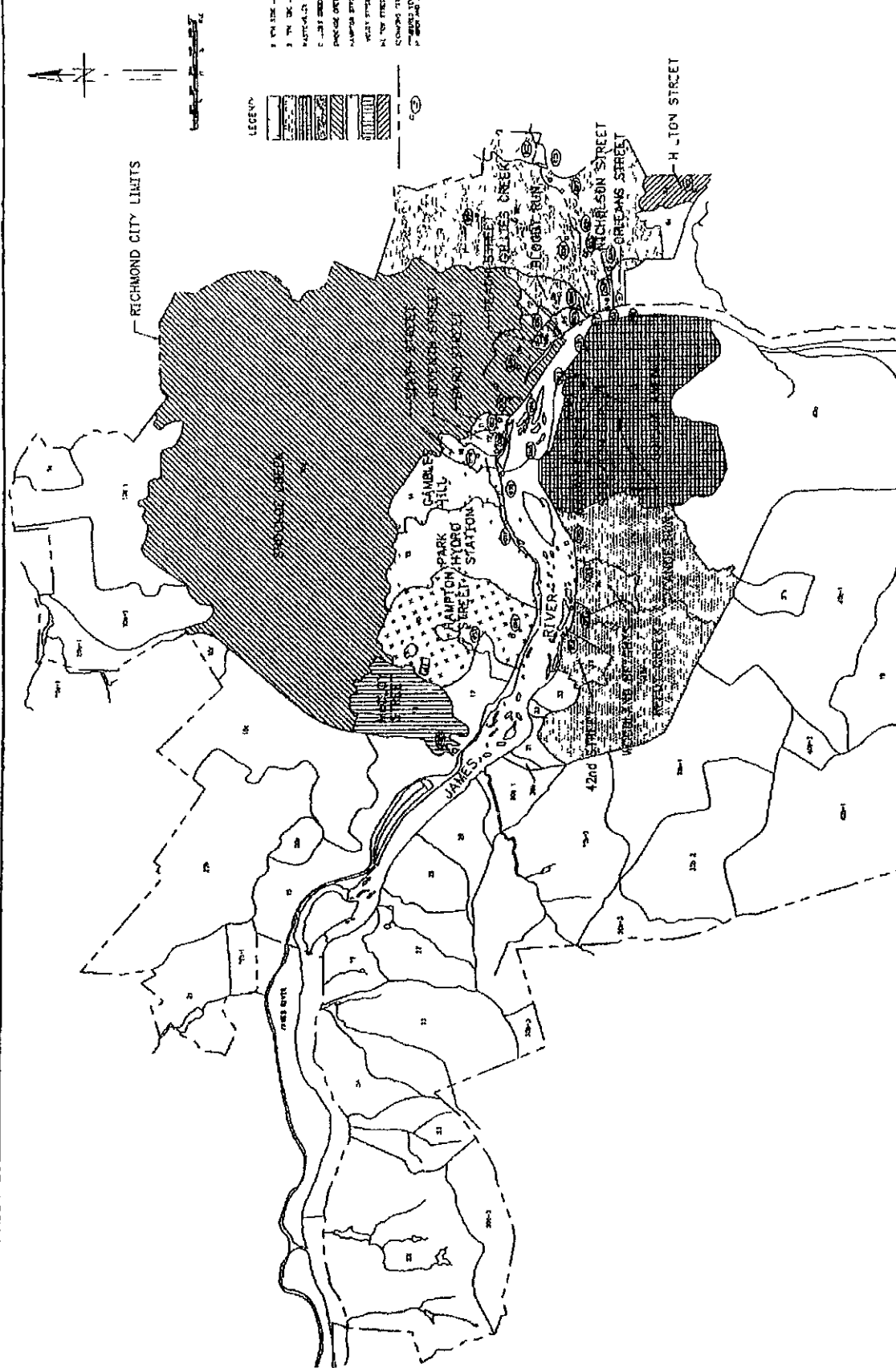
FIGURE 1-2



COMBINED SEWER AREA

CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES
CSS ANNUAL REPORT
MARCH 1998

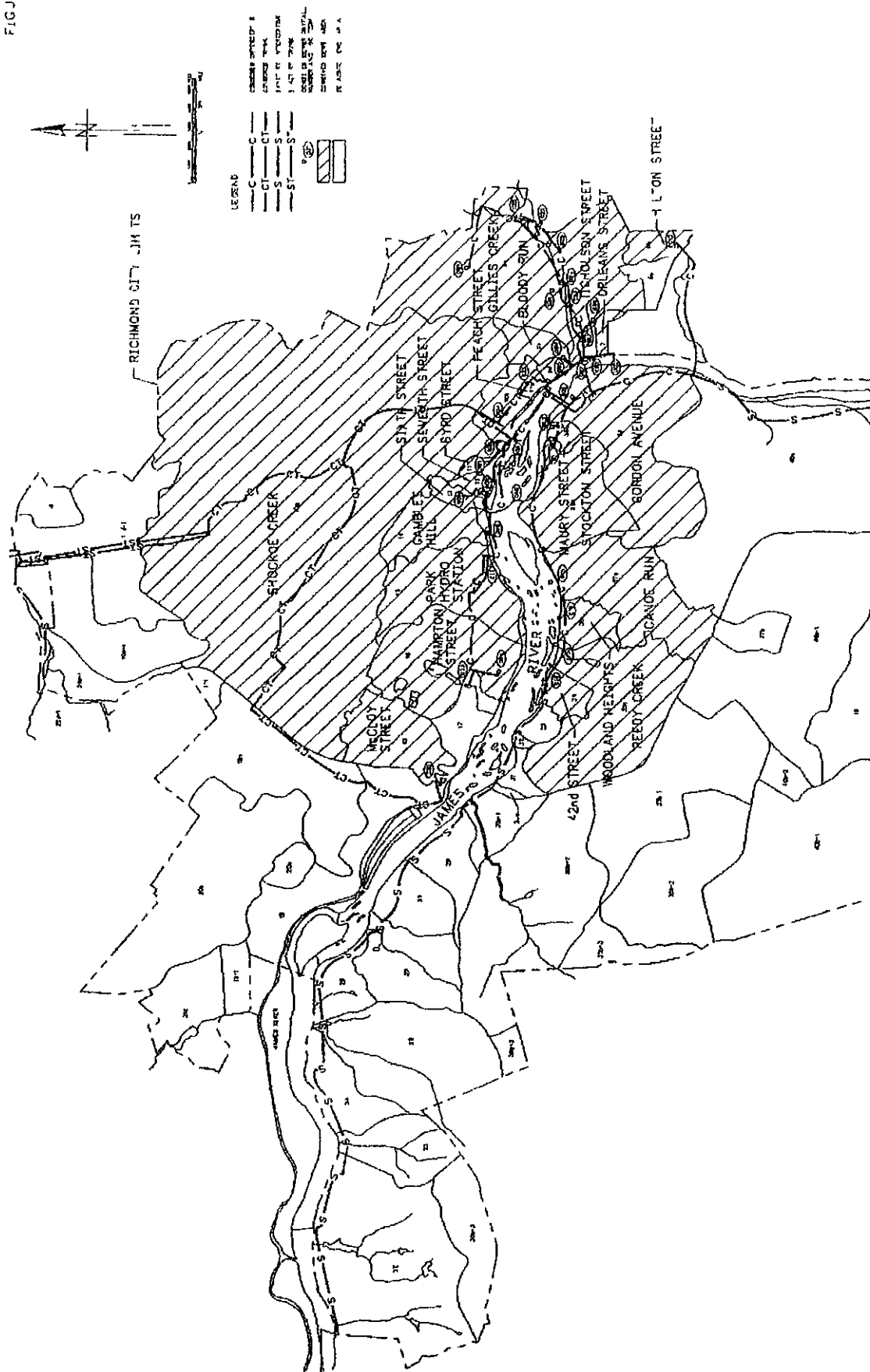
GREELEY AND HANSEN



CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES
CSS ANNUAL REPORT
MARCH 1938

CSO AREAS AND CSO OUTFALLS

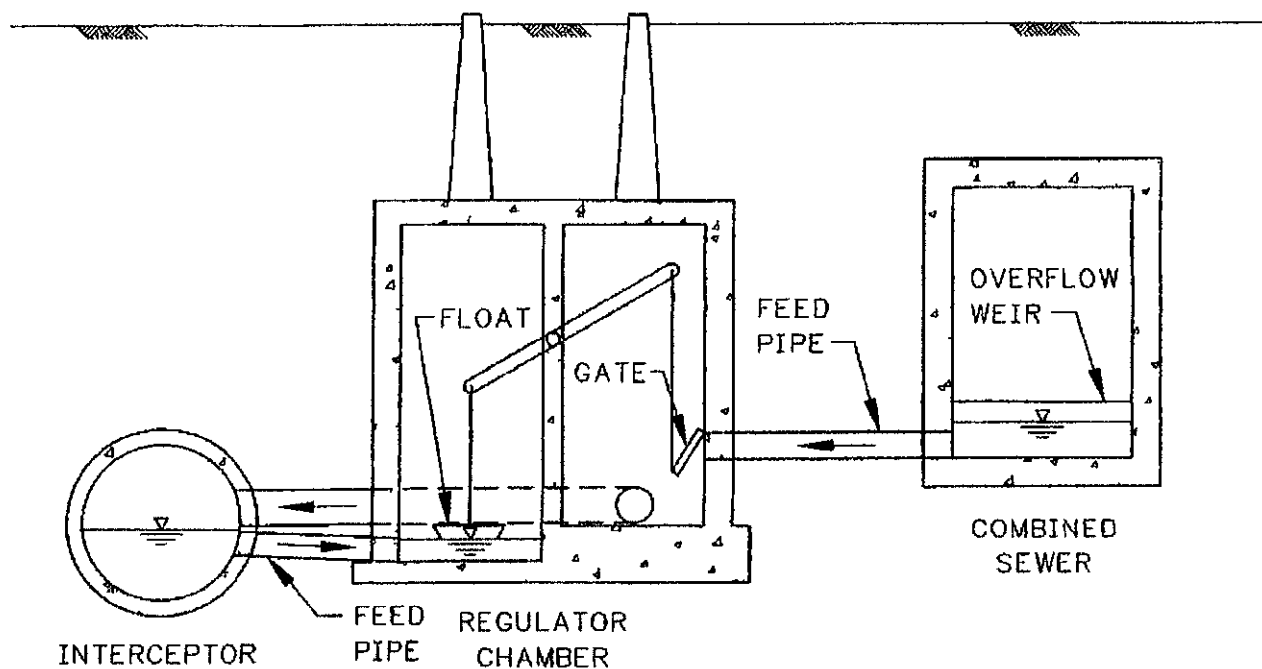
GREELEY AND HANSEN



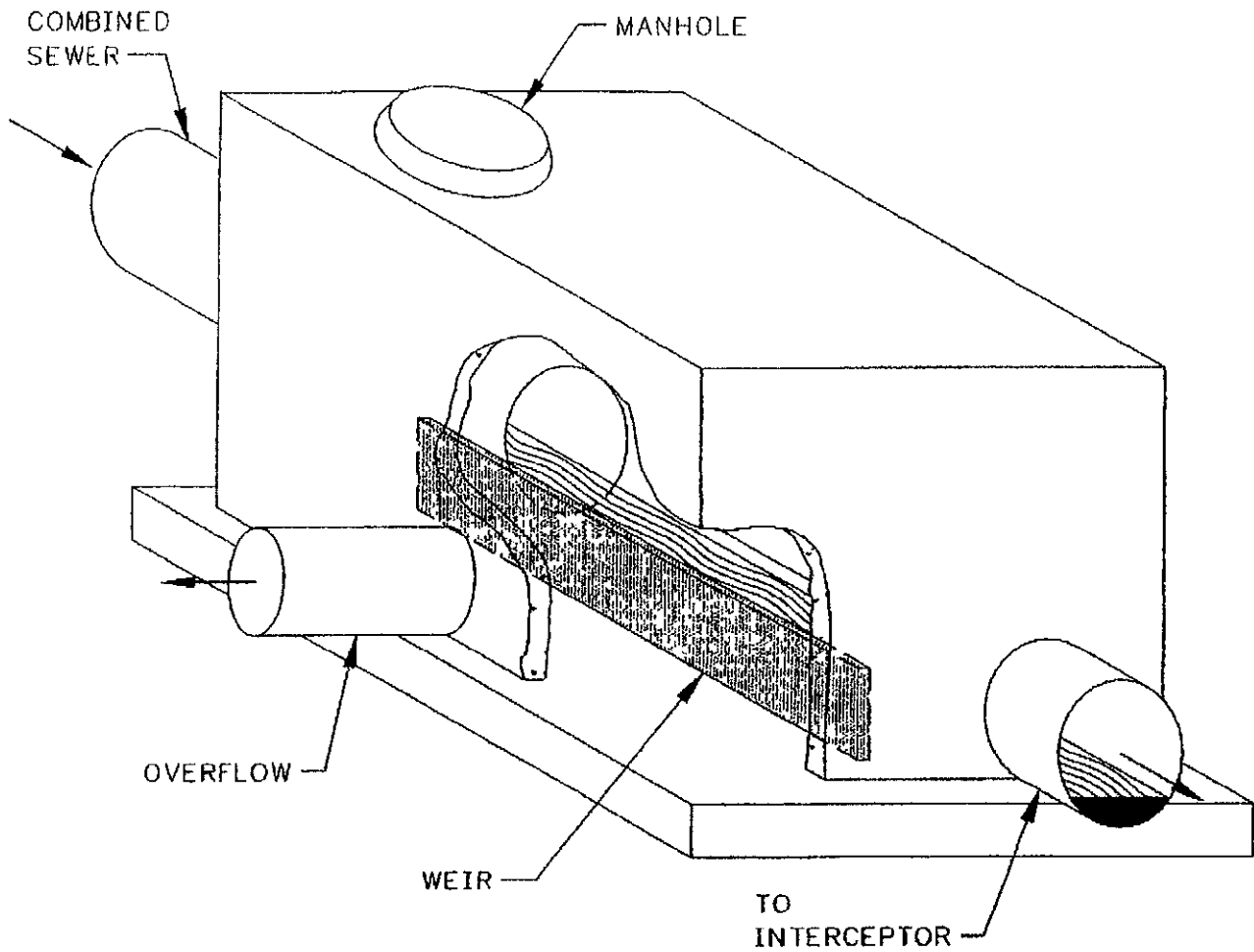
CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES
CDS ANNUAL REPORT
MARCH 1998

INTERCEPTING AND TRUNK SEWER SYSTEM SERVING SEPARATE AND COMBINED SEWER AREAS

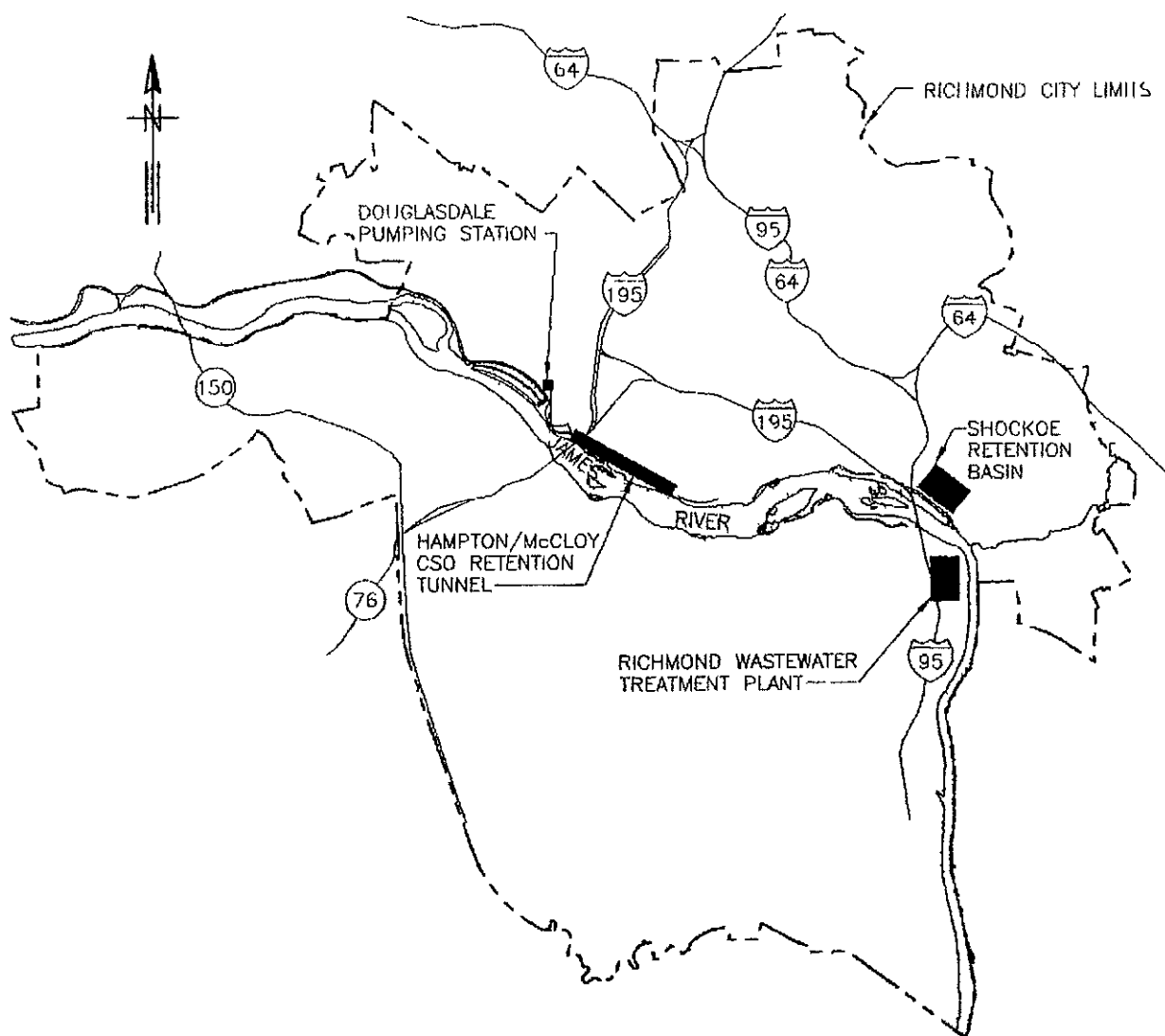
GREELEY AND HANSEN



TYPICAL MECHANICAL REGULATOR



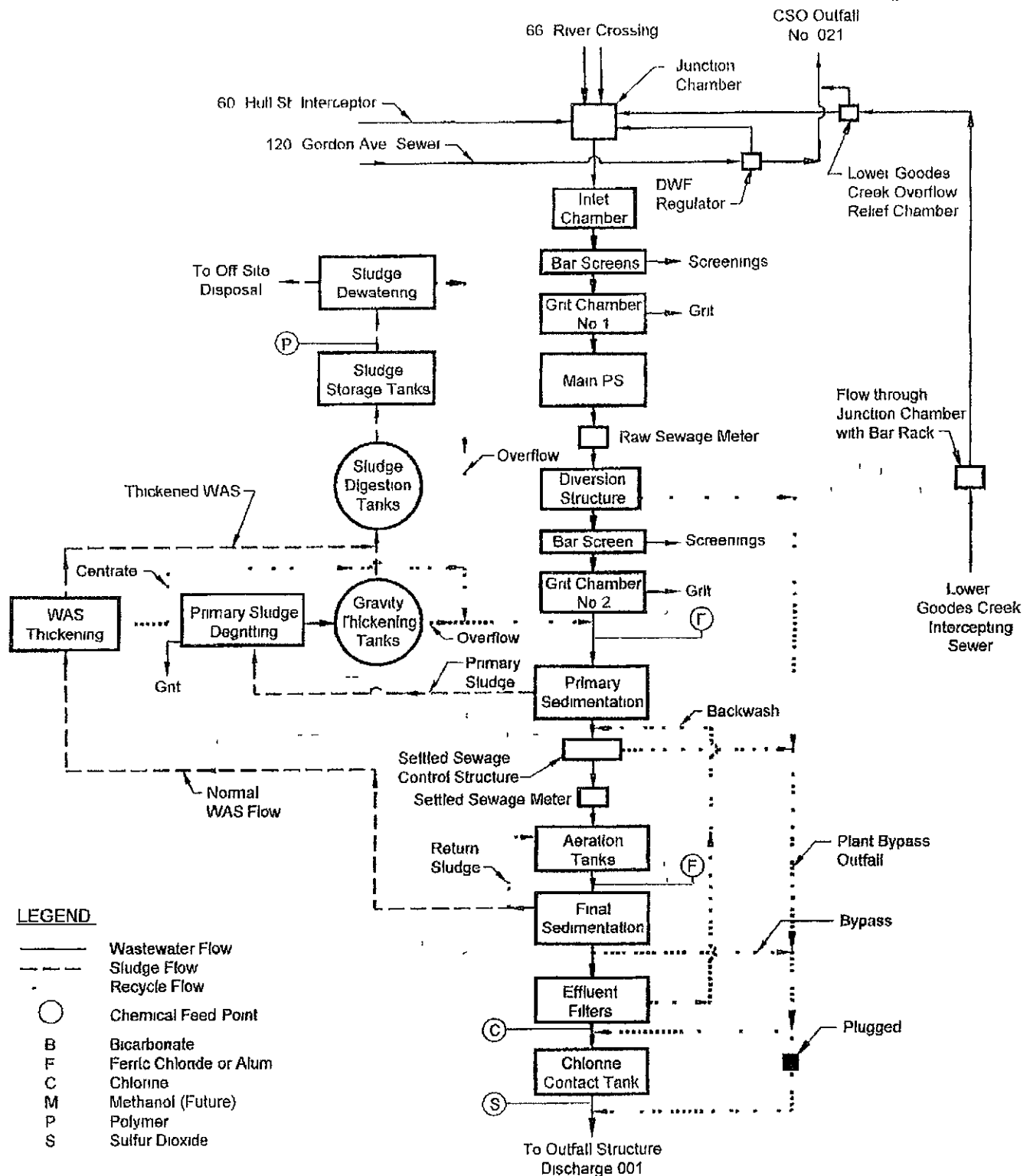
TYPICAL HYDRAULIC REGULATOR



LOCATION OF RICHMOND WWTP,
SHOCKOE RETENTION FACILITIES AND
HAMPTON-MCCLOY RETENTION TUNNEL

CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES
CSS ANNUAL REPORT
MARCH 2004

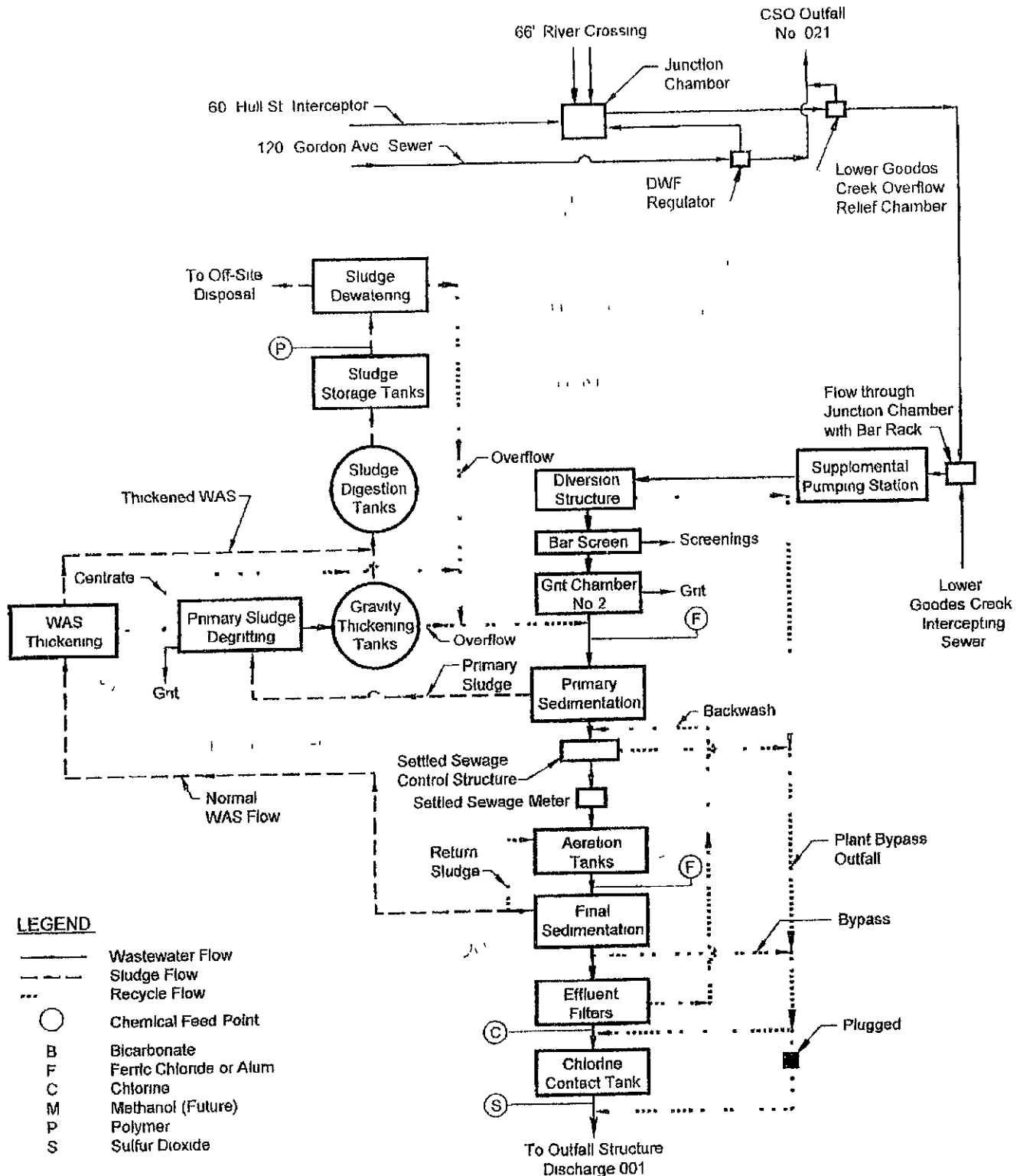
Figure 1-8A



Richmond Wastewater Treatment Plant Flow Sheet: Normal Operation

City of Richmond, Virginia
Department of Public Utilities
August 2009

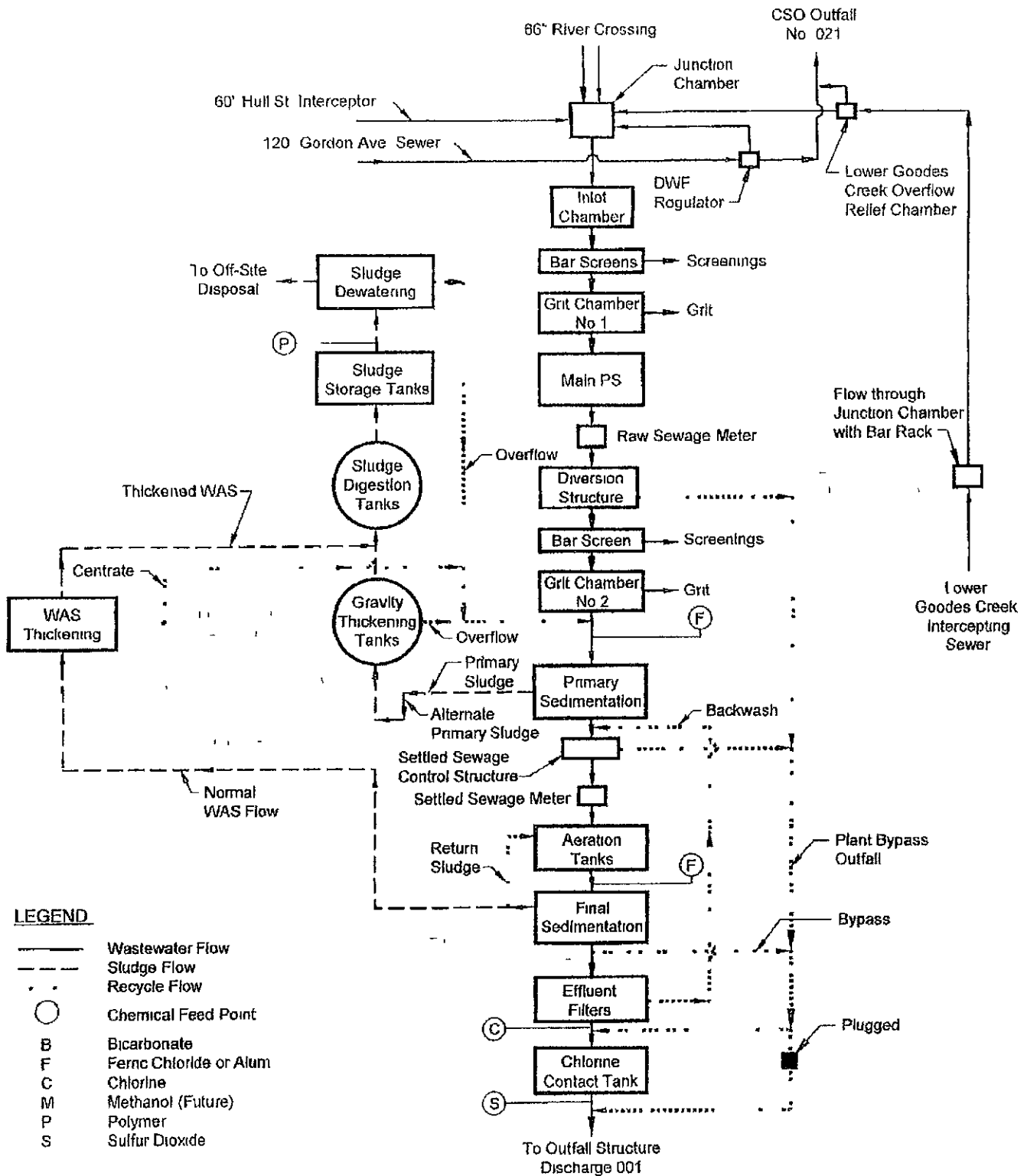
Figure 1-8B



Richmond Wastewater Treatment Plant **Flow Sheet: Main Pumping Station Out of Service**

City of Richmond, Virginia
 Department of Public Utilities

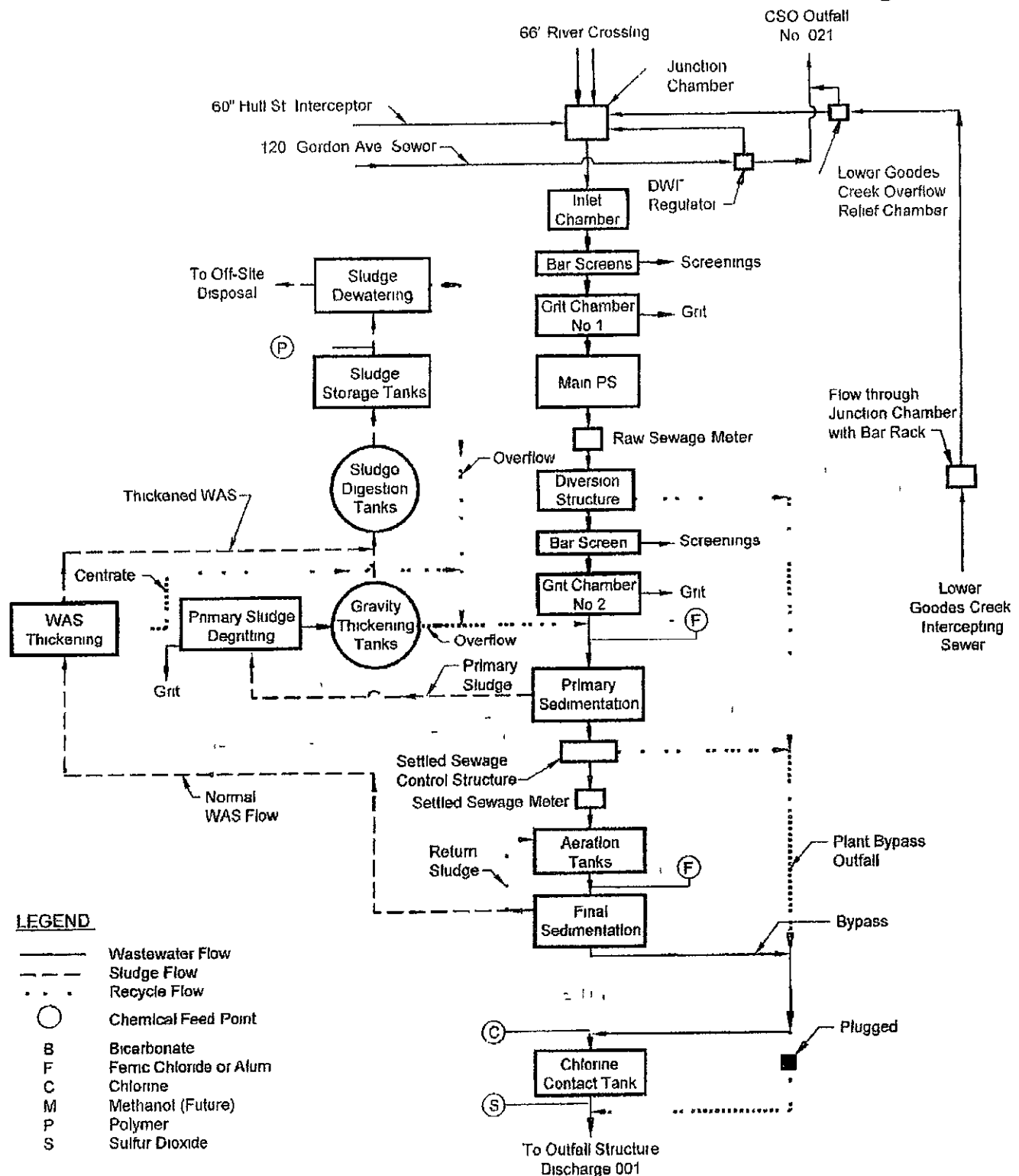
Figure 1-8C



Richmond Wastewater Treatment Plant **Flow Sheet: Primary Sludge Degritting Out of Service**

City of Richmond, Virginia
 Department of Public Utilities

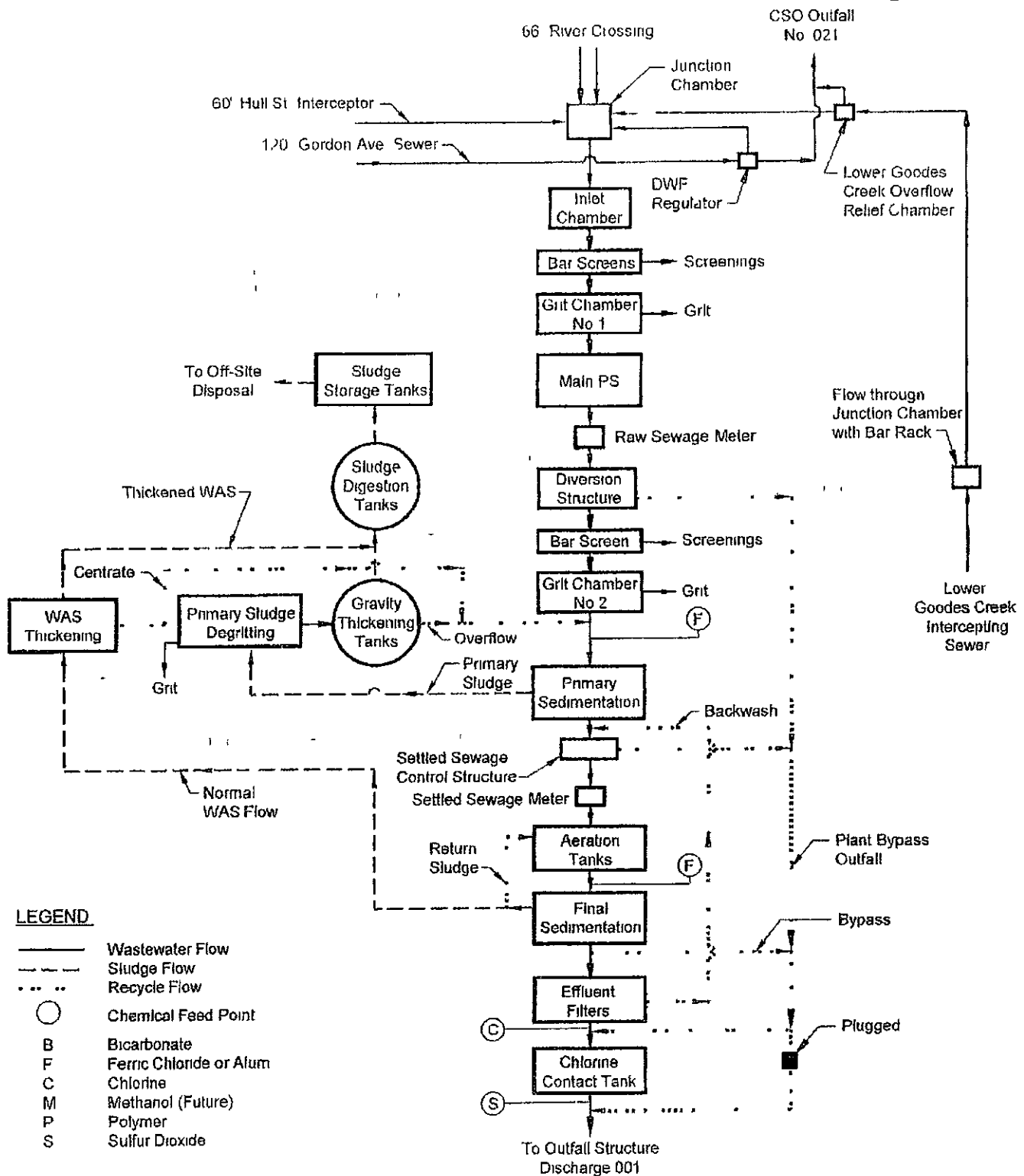
Figure 1-8D



Richmond Wastewater Treatment Plant Flow Sheet: Bypass Effluent Filter

City of Richmond, Virginia
Department of Public Utilities

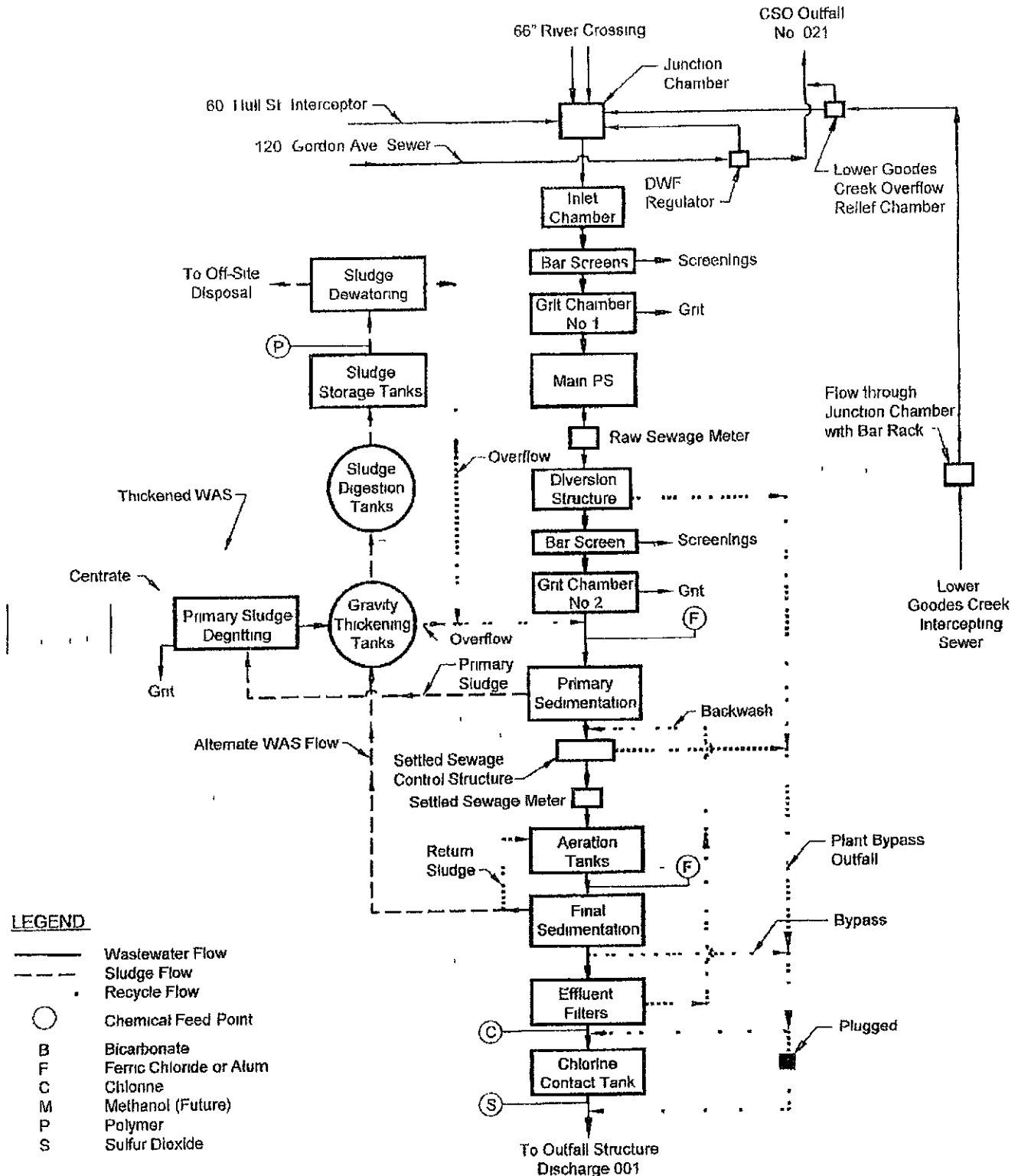
Figure 1-8E



Richmond Wastewater Treatment Plant Flow Sheet: Sludge Dewatering Out of Service

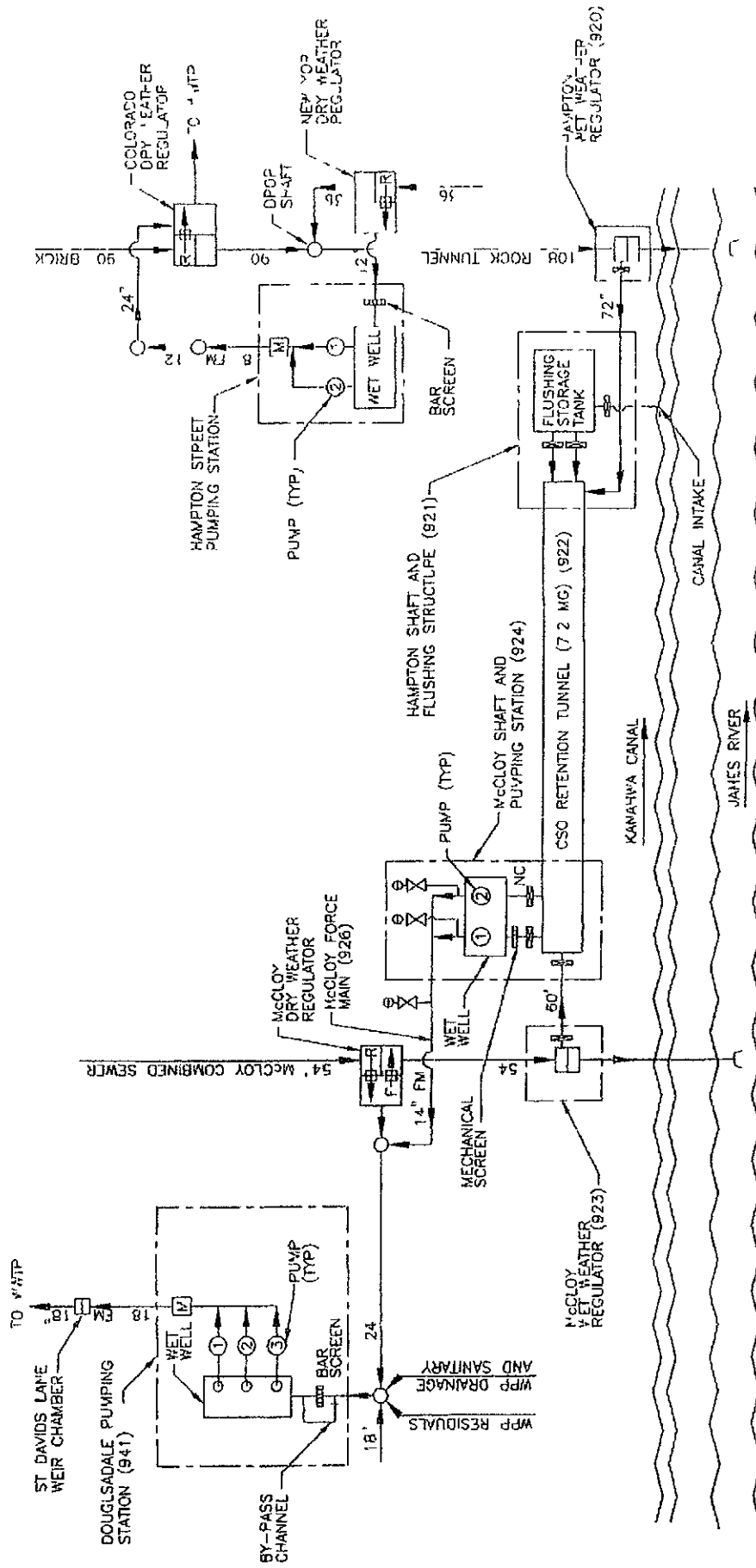
City of Richmond, Virginia
Department of Public Utilities

Figure 1-8F



Richmond Wastewater Treatment Plant Flow Sheet: WAS Thickening Out of Service

City of Richmond, Virginia
Department of Public Utilities



HAMPTON-MCCLOY RETENTION TUNNEL SCHEMATIC

CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES
CSS ANNUAL REPORT
MARCH 2004

Combined Sewer System Report for 2012

Section 2 Combined Sewer Overflow Characterization

2.1 General

A sewer overflow model (SOM) of the Richmond combined sewer system (CSS) was created for the 1988 CSO Study and was upgraded in 2002 to the EPA SWMM model in the *Combined Sewer Overflow (CSO) Study, Long-Term CSO Control Plan Re-Evaluation, Final Report* – January, 2002. The model has been revalidated with information obtained from the Shockoe Creek monitoring program.

The SWMM model was updated for 2011 to include improvements to 9 CSO areas. The improvements include partial or complete separation of combined sewer areas, new solids and floatables control regulators with increased intercepting capacity, and increased inline storage. The SWMM model was updated for the CSO areas below.

CSO ID	Type
2	Partial Separation
12	Solids/Float/Storage
13	Separation, Outfall Eliminated
24	Solids/Float/Storage
25	Solids/Float/Storage
26	Solids/Float/Storage
28	Separation of Sub-basin 028F
31	Equalization/Storage
39	Solids/Float/Storage

Results of the modeled predictions for 2012 are summarized in Tables 2-1 and 2-2 and as follows:

Item	Prediction for CSS
Total Precipitation – inches	36.55
Total Overflow Volume – MG	1,507
Numbers of Rainfall Events Predicted to Result in an Overflow	69
Average Overflow per Event – MG	21.84

Table 2-1

Summary of Precipitation and Modeled CSO Occurrences for 2012
City of Richmond

Date	Rainfall (inches)	CSO ⁽¹⁾	Date	Rainfall (inches)	CSO ⁽¹⁾
1/9/2012	0.19	CSO occurred	7/9/2012	1.82	CSO occurred
1/11/2012	0.7	CSO occurred	7/14/2012	0.96	CSO occurred
1/20/2012	0.47	CSO occurred	7/15/2012	0.73	CSO occurred
1/23/2012	0.02	No CSO	7/18/2012	0.02	No CSO
1/27/2012	0.35	CSO occurred	7/19/2012	0.09	No CSO
2/1/2012	0.55	CSO occurred	7/20/2012	0.56	CSO occurred
2/4/2012	0.06	CSO occurred	7/21/2012	0.16	CSO occurred
2/5/2012	0.06	CSO occurred	7/23/2012	0.01	No CSO
2/8/2012	0.02	No CSO	7/24/2012	0.14	No CSO
2/11/2012	0.01	No CSO	7/27/2012	0.06	No CSO
2/11/2012	0.08	CSO occurred	7/31/2012	0.74	CSO occurred
2/16/2012	0.19	CSO occurred	8/1/2012	0.1	CSO occurred
2/19/2012	0.86	CSO occurred	8/2/2012	0.65	CSO occurred
2/23/2012	0.15	CSO occurred	8/6/2012	0.02	No CSO
2/24/2012	0.28	CSO occurred	8/10/2012	0.08	No CSO
2/29/2012	0.97	CSO occurred	8/11/2012	0.22	CSO occurred
3/2/2012	0.33	CSO occurred	8/15/2012	0.04	No CSO
3/3/2012	0.02	No CSO	8/18/2012	0.22	CSO occurred
3/5/2012	0.13	CSO occurred	8/19/2012	0.11	No CSO
3/9/2012	0.36	CSO occurred	8/20/2012	0.02	No CSO
3/13/2012	0.22	CSO occurred	8/20/2012	0.27	CSO occurred
3/21/2012	0.67	CSO occurred	8/25/2012	1.47	CSO occurred
3/24/2012	0.42	CSO occurred	8/25/2012	0.28	CSO occurred
3/24/2012	0.19	CSO occurred	8/26/2012	0.02	No CSO
3/25/2012	0.01	No CSO	9/2/2012	0.04	No CSO
3/28/2012	0.12	CSO occurred	9/2/2012	1.53	CSO occurred
3/31/2012	0.03	No CSO	9/3/2012	0.03	No CSO
4/4/2012	0.01	No CSO	9/5/2012	0.17	CSO occurred
4/18/2012	0.1	No CSO	9/6/2012	1.03	CSO occurred
4/18/2012	0.06	No CSO	9/8/2012	0.21	CSO occurred
4/22/2012	1.62	CSO occurred	9/17/2012	0.05	No CSO
4/26/2012	0.41	CSO occurred	9/18/2012	0.88	CSO occurred
4/28/2012	0.1	No CSO	9/28/2012	0.1	CSO occurred
4/29/2012	0.1	CSO occurred	9/29/2012	0.04	No CSO
5/1/2012	0.01	No CSO	10/1/2012	0.01	No CSO
5/2/2012	0.05	No CSO	10/2/2012	0.2	CSO occurred
5/4/2012	0.29	CSO occurred	10/7/2012	0.67	CSO occurred
5/5/2012	0.19	CSO occurred	10/8/2012	0.08	CSO occurred
5/9/2012	0.02	No CSO	10/9/2012	0.09	CSO occurred
5/9/2012	0.82	CSO occurred	10/15/2012	0.15	CSO occurred
5/13/2012	0.14	No CSO	10/19/2012	0.05	No CSO
5/15/2012	0.18	CSO occurred	10/26/2012	0.01	No CSO
5/15/2012	0.41	CSO occurred	10/26/2012	0.08	No CSO
5/20/2012	0.05	No CSO	10/28/2012	2.66	CSO occurred
5/24/2012	0.08	No CSO	11/7/2012	0.03	No CSO
5/30/2012	0.21	CSO occurred	11/13/2012	0.12	No CSO
6/1/2012	0.48	CSO occurred	11/27/2012	0.01	No CSO
6/4/2012	0.02	No CSO	11/27/2012	0.11	CSO occurred
6/5/2012	0.37	CSO occurred	12/5/2012	0.02	No CSO
6/8/2012	0.06	No CSO	12/7/2012	0.13	CSO occurred
6/12/2012	0.02	No CSO	12/9/2012	0.07	CSO occurred
6/12/2012	0.54	CSO occurred	12/16/2012	0.23	CSO occurred
6/18/2012	0.04	No CSO	12/16/2012	0.02	No CSO
6/22/2012	1.85	CSO occurred	12/18/2012	0.01	No CSO
6/23/2012	0.01	No CSO	12/20/2012	0.72	CSO occurred
6/25/2012	0.27	CSO occurred	12/24/2012	0.13	CSO occurred
6/29/2012	0.04	No CSO	12/26/2012	1.32	CSO occurred
6/30/2012	0.57	CSO occurred	12/29/2012	0.18	CSO occurred
Total Precipitation 36.55			Total CSO Occurrences 69		

(1) CSO Occurred indicates a discharge at one or more outfalls. No CSO indicates no discharge at any outfall.

Table 2-2

**Summary of Modeled CSO Frequency and Volume for 2012
City of Richmond, Virginia**

2012 OVERFLOW SUMMARY			
CSO Number	Basin Name	FREQUENCY	VOLUME (MG)
7	Byrd	1	0 01
9	6 th & 7th St	0	0 00
10	Gambles Hill	1	0 16
11	Park Hydro	7	5 11
19	Hampton	2	5 81
20	McCloy	1	0 96
33	Shields Lake	1	0 07
SUBTOTAL			12 12
15	Canoe Run	2	4 47
16	Woodland	0	0 00
17	Reedy Cr	0	0 00
18	42nd St	0	0 00
40	CSO-1 Out/SSJRP	52	109 59
SUBTOTAL			114 06
6	Shockoe	69	1,123 28
34	19th & Dock	53	48 68
SUBTOTAL			1,171 96
14	Stockton St	21	32 84
21	Gordon Ave	67	113 46
SUBTOTAL			146 29
2	Orleans	37	3 47
3	Nicholson	37	2 62
4	Bloody Run	39	12 89
5	Peach St	2	0 21
24	Gillies & Varna	31	10 60
25	Briel & Gillies Cr	35	6 45
26	Gov't Rd & NSRR	10	1 21
28	W'Burg Rd	12	3 26
31	Oak'Wd Cem	7	2 07
35	29th & Dock	2	0 12
39	Gov't Rd & Gillies	40	15 60
SUBTOTAL			58 51
12	Hilton St	25	3 69
TOTAL CSOs (MG)			1,506 63

Combined Sewer System Report for 2012

Section 3 Monitoring of Shockoe Creek Outfall and James River

3.1 General

The City has implemented monitoring of the CSS for wet weather and dry weather flows. The program includes flow measurement and sampling. Additionally, the City has a river sampling program.

CSS and dry weather monitoring are conducted for the Shockoe Creek CSO area.

River monitoring is conducted in the tidal and non-tidal sections of the James River.

3.1.1 Shockoe CSO Monitoring Program

The plan for Shockoe CSO monitoring program is divided into two phases and was included in the *Appendix 3-1* of the *Combined Sewer System Annual Report for 1997*. The results of Phase 1 of the monitoring program were summarized in *Appendix 10-2* of the *CSS Documentation Report on NMC* dated December, 1996. An operating plan for Phase 2 was also presented in the same *Appendix*. Summaries of data collected in the Shockoe CSO Outlet Monitoring Program are submitted to DEQ through Progress Reports.

The sample collection for the monitoring program for Phase 2 is complete. The existing Shockoe CSO monitoring station was utilized to collect samples along with a new sampling facility at the Richmond Wastewater Treatment Plant on the Gordon Avenue Sewer. The Gordon Avenue Sewer is the next largest combined sewer in the City after the Shockoe Basin. The *Combined Sewer Overflow (CSO) Study, Long Term CSO Control Plan Re-Evaluation, Final Report* – January, 2002 contains the data analysis of water quality for Phase 2.

The City, as part of the current VPDES permit, has conducted sample collection for the monitoring program in the Shockoe CSO Sewershed to compare results with the earlier monitoring data referenced above. A final report for the monitoring program was issued on March 22, 2010.

3.1.2 James River Monitoring Program

The City continued the river sampling program that was initiated in September 1996. PULSEQUAL, a CSO impact model for the tidal James River prepared earlier, is being updated and verified using the river sampling program included in *Appendix 3-2* of the *Combined Sewer System Annual Report for 1997*. The sample collection for the James River monitoring program for Phase 2 is complete. The *Combined Sewer Overflow (CSO) Study, Long Term CSO Control Plan Re-Evaluation, Final Report* - January 2002 contains the data analysis of water quality for Phase 2.

The City as part of the VPDES permit has conducted sample collection for the monitoring program in the James River to compare results with the earlier monitoring data referenced above. A final report for the monitoring program was issued on March 22, 2010.

Combined Sewer System Report for 2012

Section 4 Proper Operations and Maintenance

4.1 General

The Wastewater Treatment Plant and Operations Support divisions of the Department of Public Utilities are responsible for proper operation and maintenance of the CSS. Continued measures for implementing proper O&M of the CSS are summarized in this section.

There are approximately 40 City and contract employees assigned to the CSS for sewer inspection, sewer construction and repair, sewer flushing and catch basins/inlets cleaning. These City and Contract O&M crews spend time performing operation and maintenance activities on the CSS. The CSS represents about 32 percent of the total sewered area in the City and the time dedicated to the CSS shows that the City assigns a high priority to O&M of the CSS.

Total annual sewer system expenditures for 2012 Capital Improvement Projects and O&M Projects were approximately \$10,343,349.00.

4.1.1 CSO Control Structures – Operations and Maintenance

The City owns and maintains tide gates, regulators and CSO outfalls for CSO control. There is a regular schedule for inspection and maintenance of each structure. The schedule of performance of the City's O&M program is as follows:

CSO Control Structures	Inspection Interval	Maintenance		Record in Appendix
		Interval	Type	
Tide Gates (3) Gordon Ave Stockton St Shockoe	Monthly	Monthly	Preventative Maintenance	4-1
Dry Weather Regulators (31) Wet Weather Regulators (10)	Monthly	Monthly	Preventative Maintenance	4-1
CSO Outfalls (28)	Monthly	Monthly	Preventative Maintenance	4-1

Major repairs deemed necessary at the monthly inspection are initiated by work order. The repairs are scheduled and needed parts are ordered. Major repairs may be handled by the City's maintenance department or by outside contractors depending upon the complexity of the repair.

Combined Sewer System Report for 2012

4.1.2 Pumping Stations

The City owns and maintains three pumping stations. There is a regular schedule for inspection and maintenance. Equipment inspection, screen cleaning and debris removal are part of the regular activities. Information concerning the City's Pumping Stations O&M program is summarized below.

Pump Station	Capacity (mgd)		Est. DW ⁽¹⁾ Peak (mgd)	Inspection/ Maintenance Interval	Record in Appendix
	Firm	Installed			
Douglasdale (on CSS)	7.5	13.0	2.2	Daily	4-2
Hampton (on CSS)	0.9	1.7	0.4	Daily	4-2
Upham Brook	8.6	13.0	0.3	Every Other Day	4-2
DW - Dry Weather					

4.1.3 Sewer Flushing and Cleaning

The City cleans and flushes its sewer lines at least annually, but cleans some of the lines more frequently than once per year as necessary to prevent grease and solids build-up. In 2012, the City cleaned over 289,648 linear feet of sewer lines. Debris removed during flushing and cleaning is landfilled. The City also inspects sewer lines with a video camera. In 2012, the City CCTV'd over 251,560 linear feet of sewer lines. The City owns and operates its own video equipment and also supplements its own forces with CCTV contractors. Documentation of the City's Sewer Flushing and TV program is shown in APPENDIX 4-3.

4.1.4 Catch Basin Cleaning

The City has approximately 30,000 catch basins within the City limits. This year, 2,496 were cleaned with City vacuum trucks. The City cleans approximately 1,000 catch basins in the central area more frequently on roughly a quarterly basis. Documentation of the City's Catch Basin Cleaning program is shown in APPENDIX 4-4.

4.1.5 Dry Weather Flow Study

The City has conducted a dry weather flow (DWF) study. The purpose of the study was to establish the sum base infiltration/inflow (I/I) and dry weather flow for compliance with permit limits derived from wasteload allocation evaluations. The results of this study provided bases to separate dry weather and wet weather conditions and establish when wet weather events exist in the CSS. A methodology to account for variances (increases or reductions) in DWF is currently being developed.

4.1.6 Safety and Training Programs

The City conducts regular training programs in work procedures and safety. The programs were summarized in Appendix 2-3 of the *Combined Sewer System Documentation Report on Nine Minimum Controls* dated December, 1996.

Combined Sewer System Report for 2012

Section 5 Maximize Use of Collection System for Storage

5.1 General

The CSS was operated to retain combined flow during wet weather conditions. In 2012, the City treated all flows retained in the CSS to permit limits in the WWTP. A diagram of the wastewater and combined sewer system is shown on Figure 5-1. This system includes retention basins for storage and also utilizes intercepting sewer capacity for storage. Local retention facilities provide additional stormwater storage.

5.1.1 Retention Storage

As shown in Figure 5-1, existing retention facilities in the Shockoe and Hampton-McCloy CSO areas are part of the long term CSO control plan. The Shockoe facilities serve about 8,000 acres of the CSS and comprise a 35 MG retention basin with upstream storage of about 10 MG in diversion structures and arch and box sewers. The Hampton-McCloy Retention Tunnel serves about 1,012 acres of the CSS and comprises a 7.2 MG retention tunnel.

5.1.2 Intercepting Sewer Storage

The lower sections of intercepting sewers conveying flow to the WWTP are located at elevations below the lowest CSO overflow elevation (Shockoe overflow at El. +1.00). Sewers and estimated storage are summarized below.

Intercepting Sewer	Diameter (inches)	Length Below El. +1.00 (feet)	Storage Capacity (MG)
Lower Goodes Creek	72	10,905	2.61
Twin River Crossings	66	1,100	0.39
Hull Street	60	2,700	0.40
Southside CSO Conveyance ⁽¹⁾	90	4,650	1.54
Shockoe	96	2,700	1.02
Gillies Creek	60	2,500	0.37
Northside CSO Conveyance ⁽²⁾	96, 84, 60	2,850	0.89
⁽¹⁾ Southside CSO Conveyance stores CSS to an elevation of 10.0 feet			
⁽²⁾ Northside CSO Conveyance stores CSS to an elevation of 16.0 feet			

Combined Sewer System Report for 2012

5.1.3 Stormwater Storage

As shown on Figure 5-1, there are holding ponds located adjacent to the Brander Street and Gordon Avenue pumping stations. These ponds are part of the Richmond floodwall system and are designed to retain stormwater. There are other local stormwater holding facilities on the CSS. Examples are as follows:

- Parking lot stormwater retentions - DPU Operations Building
- Stormwater retention - State Archives Building
- Industrial Stormwater Retention as described in Section 6.1.1

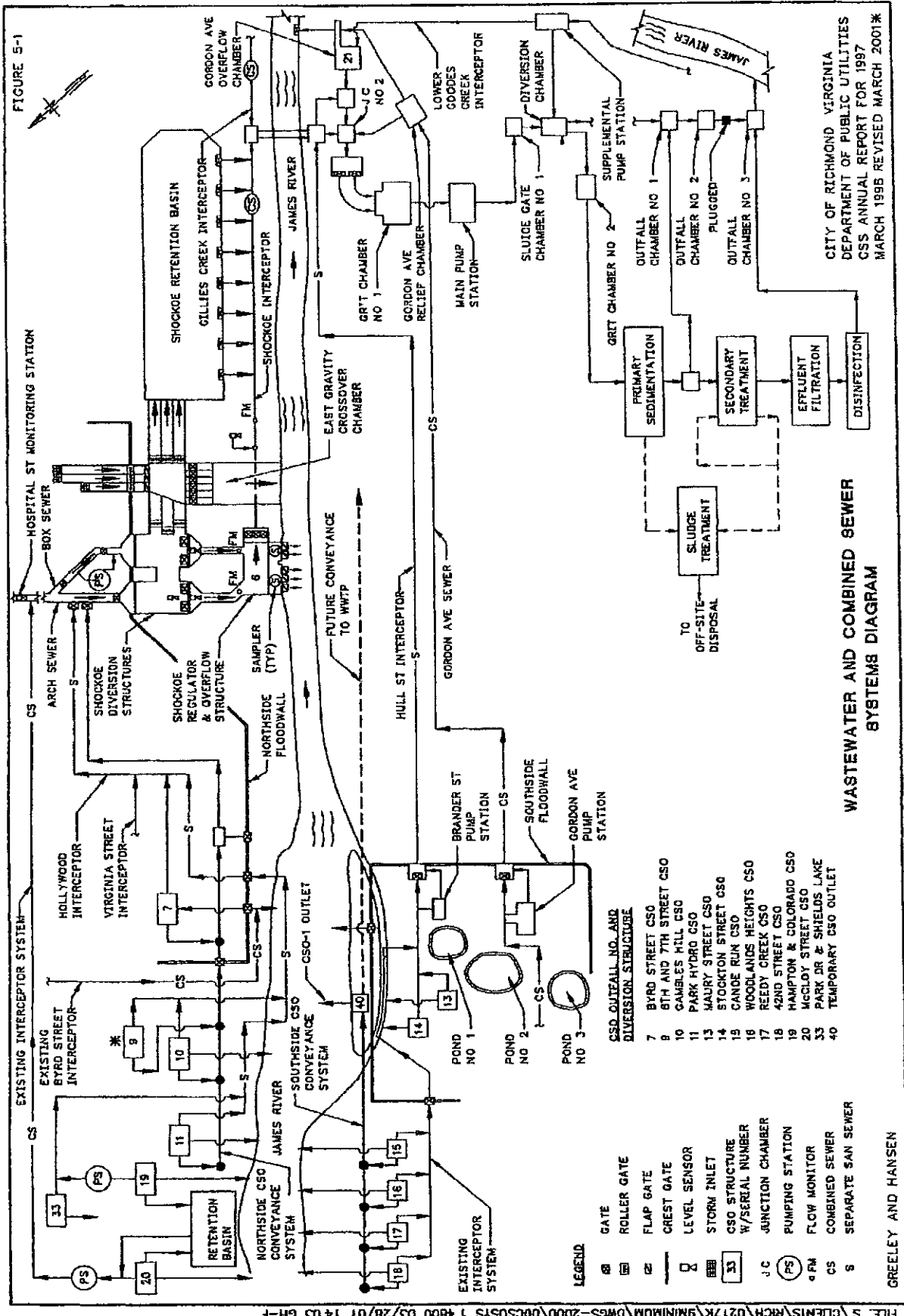
5.1.4 Sewer Relining

The City conducts an extensive annual sewer relining program to reduce I/I. The City lined 6,100 feet of sewer in 2012. Documentation of the City's Sewer Relining Program is summarized in APPENDIX 5-1.

5.1.5 Other

Other measures implemented to maximize storage are summarized as follows:

- Tide gates are routinely inspected and repaired to reduce tidal intrusion (see Section 4 - Proper Operations and Maintenance). The Shockoe gates were replaced in 2012.
- Ordinance prohibiting connection of roof leaders to the sanitary sewer was presented in *Appendix 5-1* of the *Combined Sewer System Documentation Report on Nine Minimum Controls* dated December 1996.



CITY OF RICHMOND VIRGINIA
 DEPARTMENT OF PUBLIC UTILITIES
 CSS ANNUAL REPORT FOR 1997
 MARCH 1995 REVISED MARCH 2001*

Combined Sewer System Report for 2012

Section 6 Review and Modify Industrial Pretreatment Requirements

6.1 General

The City administers an industrial pretreatment program as required by its VPDES permit. The City's Industrial Pretreatment Ordinance was included in *Appendix 6-1* of the *Combined Sewer System Documentation Report on Nine Minimum Controls* dated December, 1996.

6.1.1 Storm Water Retention

The following industries retain storm water on site during wet weather events and control releases until after the event for treatment to permit limits at the WWTP.

Industry Name	Location
Sonoco Products Company	Commerce Road
BP Products North America	Commerce Road
Citgo Petroleum Corporation	Maury Street
First Energy Corporation	Maury Street
Magellan Terminals Holdings, L P Richmond Terminal	East First Street
Transmontaigne Terminating	Commerce Road

Each industry is issued an Industrial User Permit which includes a section on Discharge of Stormwater. A typical Industrial User Permit was included in *Appendix 6-2* of the *Combined Sewer System Documentation Report on Nine Minimum Controls* dated December, 1996.

6.1.2 Water Plant Residuals

The City's water treatment plant residuals are being dredged, dewatered, and disposed off site by a city contractor. The city dredge is used sporadically and at levels well below the maximum permitted rate and treated at the wastewater treatment plant.

6.1.3 Industrial Impact

CSO modeling and wastewater sample analysis do not indicate any impacts attributed to non-domestic resources.

Combined Sewer System Report for 2012

Section 7 Maximize Flow to the POTW for Treatment

7.1 General

The City has continued its program for maximizing flow to the WWTP during wet weather conditions. Essential elements of the program are summarized below:

- The CSS is designed to permit diversion in excess of three (3) times DWF to the WWTP as noted on Table 7-1
- Flow stored in the Shockoe Retention System and the Hampton-McCloy Retention Tunnel is treated at a rate of no less than 75 mgd and the system is emptied within 48 hours after CSO conditions cease to exist
- Treatment rates at the WWTP are increased during wet weather conditions
- Flows of at least 75+ mgd at the WWTP are treated to permit limits

Table 7-1
CSO Regulator Diversion Capacities

CSO No.	Designation	EST. DWF ¹ mgd	REG CAP ² mgd	Ration = $\frac{CAP}{DWF}$
Northside James River Park CSO Area				
007	Byrd Street	0.06	3.50	58.3
008	Sixth Street	0.09	3.32	36.9
009	Seventh Street	0.05	1.30	26.0
010	Gambles Hill	0.23	1.90	8.3
011	Park Hydro	0.65	14.33	22.0
Southside James River Park CSO Area				
015	Canoe Run	0.89	5.54	6.2
016	Woodland Heights	0.15	1.83	12.2
017	Reedy Creek	0.40	9.98	25.0
018	42nd Street	0.26	1.24	4.8
Hampton Street CSO Area				
033	Shields Lake	0.08	11.38	142.3
019	Hampton St			
019a	Hampton St & Colorado Ave	0.58	0.86	1.5
019b	Hampton St & New York Ave	0.58	5.67	9.8

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CSO No.	Designation	EST. DWF ¹ mgd	REG CAP ² mgd	Ratio = $\frac{\text{CAP}}{\text{DWF}}$
McCloy Street CSO Area				
020	McCloy Street	0.40	4.87	12.2
Manchester CSO Area				
014	Stockton Street	0.69	17.00	24.6
021	Gordon Avenue	1.22	6.24	5.1
Gillies Creek CSO Area				
002	Orleans Street	0.09	1.05	11.7
003	Nicholson Street	0.05	0.91	18.2
004	Bloody Run	0.20	3.48	17.4
005	Peach Street	0.04	6.23	155.8
024	Gillie & Varina Streets	0.25	2.30	9.2
025	Briel Street & Gillies Creek	0.40	3.90	9.8
026	Gov't Road & NSRR	0.22	2.40	10.9
028	Williamsburg Road			
028a	Williamsburg Road & Hatcher St	0.027	2.22	82.2
028e	Carlisle & Orleans	0.06	0.84	14.0
031	Oakwood Cemetery	0.38	20.0	52.6
035	29th & Dock Streets			
035a	25 th & E Main	0.05	4.51	90.2
035b	25 th & E Cary	0.05	2.03	40.6
039	Gov't Road & Gillies Creek	0.30	3.20	10.7
Shockoe Creek CSO Area				
006	Shockoe Creek	16.75	51.00	3.0
034	19th & Dock Streets	0.29	5.25	18.1
Hilton Street CSO Area				
012	Hilton Street	0.20	2.20	11.0

¹ Estimated average daily dry weather flow

² Regulator diversion capacity to intercepting sewer without overflow. Revised per model in Combined Sewer Overflow Study (CSO), Long-Term CSO Control Plan Evaluation, Final Report, January 2002 and completed Phase III CSO Projects including solids and floatable control regulator projects for CSO 024, 025, 026, 039, 012 and 031 and Maury Street Separation Project (which closed CSO 013 outfall in 2011)

Combined Sewer System Report for 2012

The Richmond Wastewater Treatment Plant is being upgraded to comply with the existing Richmond VPDES Permit limitations and the new nutrient waste load allocations. During the upgrades many existing processes are affected by the sequencing of the work. The City has been operating, to the maximum extent and duration practical, its WWTP to provide treatment to flow rates above 50 MGD.

Combined Sewer System Report for 2012

Section 8 Eliminate Dry Weather Overflows

8.1 General

The CSS retention and diversion facilities and pumping stations are regularly maintained (see Section 4 - Proper Operations and Maintenance) to prevent dry weather overflows. The Shockoe retention facilities are continuously manned. The Hampton-McCloy Retention Tunnel is operated remotely from the WWTP with regular inspections.

The CSS diversion facilities are all designed to convey to the WWTP flow rates that are substantially in excess of dry weather conditions as shown in Table 7-1.

Blockages or other circumstances can result in dry weather discharges from the CSS. Some discharges may occur occasionally in the system or at combined sewer outfalls as a consequence of blockages or damaged properties and are reported in accordance with the VPDES permit.

The City maintains an "on call" team of maintenance personnel to respond to blockages or other occurrences that could result in dry weather discharges. The "on call" team responds to incidents relayed by duty personnel. "On call" maintenance personnel have been trained in maintenance and corrective action procedures required for CSS retention and diversion facilities and pumping stations.

Combined Sewer System Report for 2012

Section 9 Control of Solid and Floatable Material in CSOs

9.1 General

Measures implemented to control solid and floatable material in CSOs are summarized as follows

- The Shockoe Retention Facilities and the Hampton-McCloy Retention Tunnel provide continuous mechanical screening. The Shockoe Retention Facilities provides screening for over two-thirds of the CSS. The Hampton-McCloy Retention Tunnel screens an additional 1,012 acres of the CSS. Estimated average annual overflow for the CSS was summarized in *Table 7-1* of the *CSS Documentation Report on Nine Minimum Controls* dated December, 1996. The Shockoe Retention Facilities screen approximately 58 percent of the total flow generated in the CSS.
- The construction of the Northside and Southside James River Park CSO conveyance facilities are completed and include flotation or stilling chambers and/or static screens along with baffles to capture solid and floatable material. The material captured is transferred to the intercepting sewers for removal at the WWTP.
- The Hampton-McCloy Retention Tunnel for the McCloy and Hampton CSOs is equipped with solid and floatable capture chambers. All flow captured in the retention tunnel is screened prior to transfer to the WWTP.
- All flow captured in retention facilities in 2012 was transferred to the WWTP for complete treatment.
- All increase in flow received at the WWTP during wet weather events in 2012 (e.g. all flow above the nominal DWF of 45 mgd) received complete treatment.
- Screening operations at the Shockoe Retention Facilities are increased during leaf season.
- The City's Department of Public Works continued to conduct a loose leaf collection program. The program is summarized in APPENDIX 9-1. The City's packaged leaf and yard waste program was combined with regular household waste collections after May, 2000.
- The City's Department of Public Utilities continues to document a regular catch basin cleaning program. See Section 4, Proper Operations and Maintenance.
- The City's Department of Public Works continues to document regular litter control program. See Section 10, Pollution Prevention.
- The City's Department of Public Works continues and documents regular street cleaning. See Section 10, Pollution Prevention.

The foregoing programs provide capture and removal of solid and floatable material that would otherwise be discharged at CSO outlets during wet weather events.

Combined Sewer System Report for 2012

Section 10 Pollution Prevention

10.1 General

Pollution prevention programs and currently ongoing activities performed by the City are summarized as follows

- The WWTP conducts periodic facility tours for public groups, (e.g., grade and high school classes, civic and environmental organizations, college classes, medical groups, Girl and Boy Scout troops). On each tour the plant treatment process and the combined sewer system are explained. Proper disposal of household wastes, leaves, and use of fertilizer are also reviewed during tours. Two tours were conducted in 2012. Documentation of the City's facility tours is shown in APPENDIX 10-1.
- The City's Adopt-a-Spot/Street program recognizes citizens, civic, and merchant associations for maintaining areas of the City. Over 25 areas have been adopted. Documentation of the City's Adopt-a-Spot/Street program is shown in APPENDIX 10-2.
- Industries are required to retain storm water onsite during wet weather events for later release to the WWTP for treatment (see Section 6 - Review and Modify Industrial Pretreatment Requirements).
- The City continues to operate a septage hauler dumping station at Brander Street Pumping Station. The septage hauler connects his tank truck to the dump station and septage is metered as it is unloaded. Septage is screened at this station and all waste flows to the WWTP for treatment to permit levels. The Environmental Compliance Officer at the Richmond WWTP maintains a list of haulers and typical surcharge volume data. A new septage hauler dumping station was completed in 2011 and is now in operation.
- The City collects trash from waste baskets located around the City daily. Documentation of trash collection is shown in APPENDIX 10-3.
- The City conducts a street cleaning program, which removes over 15,000 tons of debris during street sweeping of over 8,583 lane miles of the City's streets. See APPENDIX 10-4 for documentation of this activity.
- The City has contracted to private agencies a regular schedule of street scrubbing in the downtown area.
- The City of Richmond hosted a dedication for a new household hazardous waste facility on March 3, 2008 at the East Richmond Road Convenience Center. Disposal of household hazardous waste items was open to City of Richmond residents only (no businesses). Household hazardous waste items accepted are solvents, paints, fuels, propane tanks, car fluids, batteries, cooking oil. The East Richmond Road Convenience Center at 3800 East Richmond Road accepts household hazardous waste from 7:00 a.m. to 4:30 p.m. weekdays and from 9:00 a.m. to 2:00 p.m. on Saturdays.
- The City has a Pet Waste Collection program in the James River Park-Reedy Creek area.

Combined Sewer System Report for 2012

Section 11 Public Notification

11.1 General

During preparation of its long term CSO control plan (Project D-1 from 1988 CSO Study), the City conducted an extensive public notification and participation program. Following adoption of Project D-1 by City Council, the Study was reviewed by the Virginia Department of Environmental Quality (VDEQ). During VDEQ review, the Virginia Water Control Board (VWCB or Board) held several public meetings/hearings on the proposed plan and in March, 1989, the Board approved the City's long-term CSO control plan.

Over the course of public notification and involvement, hundreds of people were made aware of the CSS and efforts being made to control wet weather situations. Principal public agencies and interest groups actively involved in the process included the following:

- Richmond City Council
- Richmond Departments of Public Utilities and Parks
- Virginia Water Control Board
- Virginia Department of Environmental Quality
- USEPA, Region III
- Falls of the James Scenic River Advisory Committee
- Chesapeake Bay Foundation
- Environmental Defense Fund
- Lower James River Association
- Southern Environmental Law Center
- Neighborhood and Recreational Groups

11.1.1 CSO Warning Signs

Twenty-two (22) of twenty-eight (28) CSOs were predicted to discharge, on an average, more than once per summer and therefore, each of them required a CSO warning sign per the VPDES permit. These signs were erected, and are maintained by DPU, Wastewater Division.

11.1.2 CSO Control Plan Public Notification and Participation

The program conducted by the City was diagramed on Figure 11-1 and is summarized in *Appendix 11-1* of the *CSS Documentation Report on Nine Minimum Controls* dated December, 1996.

Combined Sewer System Report for 2012

11.1.3 Regulatory Agencies Public Process

Public activities and involvement during regulatory agency review and approval process leading to implementation of the City's CSO control plan was diagramed on *Figure 11-2* of the *Combined Sewer System Annual Report* for 1997

During 2012, the City participated in the following meetings with regulatory agencies

Agency	Subject
DCR	TMDL – Chesapeake Bay
Virginia DEQ	TMDL – James River Bacteria Water Quality Standards Coordination Integrated Planning James River Chlorophyll A Study
Corps of Engineers	CSO Program Review Flood Wall Review Shockoe Bottom Drainage

11.1.4 Community Meetings

The City meets with local community (neighborhood) groups on an as needed basis to provide information on activities involving CSO control projects. During 2012, the City held the following Citizen Input and Community Meetings

- 1/7/12 – New Visions Civic League – civic association meeting
- 4/19/12 – Business First Greater Richmond – professional meeting
- 3/6/12 – Friends of Forest Hill Park – public event
- 3/4/12 – VCU/James River Association – SW workshop
- 3/21/12 – Green Elementary School – SW presentations to students
- 4/14/12 – 17th Street Farmers Market – display of rain barrels – talked to people who stopped by
- 4/21/12 – Summer Hill elementary School – SW presentations to students
- 4/24/12 – Science Museum of Richmond – ceremony and displayed rain barrels
- 4/24/12 – Kanawha Trace Homeowners Association
- 4/29/12 – Sunday in Forest Hill Park – public event
- 5/15/12 – Chumborazo Rain Garden Celebration – public event
- 8/13/12 – Alliance for Progressive Values – public meeting
- 8/17/12 – Wags & Wine public event
- 8/18/12 – Northside dog park grand opening – public event
- 9/15/12 – Bellemeade Stream & Neighborhood cleanup and drain marking

11.1.5 Local Press Coverage

Newspaper coverage of the CSS is ongoing. Examples of public information being provided were summarized in *Appendix 9-2* of the *CSS Documentation Report on Nine Minimum Controls* dated December, 1996. The City's webpage documents coverage at its "News Releases and Videos" page located at <http://www.richmondgov.com/PublicWorks/NewsReleasesVideos.aspx>

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11.16 CSO Overflow Reporting

The City maintains a program that enters monthly rainfall data into the City's dynamic hydrologic model of the city's sewer collection system. The model can predict CSO events due to rainfall by location, magnitude and duration of CSO events. The City provides the model results, presented in tables and charts, which are uploaded monthly to the City's CSO webpage. The CSO webpage also provides charts of historic data for each CSO location, along with the current data. The information provided can assist the public with event planning. The 2012 graphs of the overflow frequency by month for each CSO overflow point are shown in APPENDIX 11-2.

11.17 CSO Public Notification

The City maintains a web based notification of CSO events in real time based on rainfall readings. A citizen can subscribe to the notification on the City's Department of public utilities web site. CSO notification was sent to the registered e-mail addresses of citizens.

11.18 CSO Web Animation

The City maintains a 3D visual graphic presentation of the major components of the combined sewer collection system for the purpose of public education. The 3D graphics are animated and narrated to describe to the viewer the dynamic process of collecting and managing combined sewer flow. The animation shows the viewer sources of combined sewer including residential and rainfall dependent inflow and infiltration. The animation demonstrates the fundamental operation of a sewer flow regulator and how a CSO can occur. Specific facilities within the City's collections system are highlighted, including the Hampton/McCloy CSO Retention Tunnel and the Shockoe Retention Basin and Outfall. The City's 100 year floodplain is also featured as an animated segment.

The 3D visual graphic presentation is available to the public through the City's CSO webpage. The direct link is <http://www.richmondgov.com/PublicUtilities/projectCombinedSewerOverflow.aspx>. The animation is presented in short, easily viewed segments. The webpage includes an interactive map that a visitor may click on to display different segments of the animation. This interactivity invites a visitor to view the animated segments in a specific order or allow the visitor the flexibility to view whichever segment they choose. The City uploaded this to the City's CSO webpage in 2009.

Combined Sewer System Report for 2012

Section 12 Monitoring

12.1 General

The City of Richmond installed 7 sewer flow meters and 2 rain gauges during the Shockoe CSO Monitoring Program. The City of Richmond has initiated a sewer flow monitoring program that includes 14 additional sewer flow meters and 4 additional rain gauges. The 4 rain gauges and 10 new sewer flow meters have been installed as of March 2013. The remaining meters are slated for installation in 2013. When installation has been completed, the city will have 21 flow meters and 6 rain gauges collecting data on a continuous basis.

See Section 3, Monitoring of Shockoe Creek Outfall and James River, for details relative to the Shockoe CSO Monitoring program and James River Sampling and Monitoring program.

Combined Sewer System Report for 2012

APPENDICES

Combined Sewer System Report for 2012

APPENDIX 4-1

Tide Gate, Regulators and CSO Outfalls



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month JAN Signature

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R	1-3-12		NORMAL FLOW NO BYPASS
3	Nicholson Street	James River	R	1-3-12		Flow normal, NO BYPASS
4	Bloody Run	Gillies Creek	R	1-3-12		Regulation flow normal NO BYPASS
5	Peach Street	James River	R	1-3-12		NORMAL FLOW NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	1-3-12		NORMAL FUNCTION IN CANAL
24	Gillie and Varina Streets	Gillies Creek	R	1-3-12		REGULATION FUNCTION NORMAL
25	Briel Street & Gillies Creek	Gillies Creek	R	1-3-12		NORMAL FLOW NO BYPASS
26	Gov't Road and NSRR	Gillies Creek	R	1-3-12		NORMAL FLOW NO BYPASS
27	New Williamsburg Road	Gillies Creek	R	1-3-12		NORMAL FLOW NO BYPASS
28	Williamsburg Road	Gillies Creek	R			NO SIGN OF BYPASS
31	Oakwood Cemetery	Stoney Run	R			NORMAL FLOW NO BYPASS
35	29th and Dock Street	Richmond Dock Canal	R			REGULATION FUNCTION NORMAL NO BYPASS
39	Gov't Road & Gillies Creek	Gillies Creek	R			NO SIGN OF BYPASS IN CANAL
						REGULATION FUNCTION NORMAL
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R			REGULATION FUNCTION NORMAL NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		1-17-12		NORMAL FUNCTION ON FANS
	14th & Semmes Ave		PS	1-17-12		PUMP FUNCTION NORMAL
	Cary & Maple Ave	Main Connection to Henrico Co		1-17-12		NO SIGN OF FLOW IN REGULATOR
	Maryland Ave	Connection to Henrico Co		1-17-12		NO SIGN OF FLOW IN REGULATION
	Seminary Ave	Connection to Henrico Co		1-17-12		NO SIGN OF FLOW IN REGULATION
	Pine Alley	Drain Boxes		1-17-12		NO SIGN OF BYPASS IN ALLEY

Type Device R = Regulator TG = Tide Gate W = Weir TF = Transfer Facility RO = River Outfall PS = Pump Street



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month JAN Signature

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area						
33	Shields Lake	Dooley Branch	W	1-12-12		NO SIGN OF BYPASS IN FIELD
19	Hampton - Colorado		R	1-12-12		REGULATOR TO STATION FUNCTION NORMAL
19	Hampton - New York	James River	R	1-12-12		NORMAL FLOW IN REGULATOR
McCloy Street CSO Area						
20	McCloy Street		R & TF	1-12-12		REGULATOR AND TUNNEL FUNCTION NORMAL
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF	1-10-12		REGULAR FLOW IN REGULATOR NO BYPASS
10	Gambles Hill	Haxall Canal	R & TF	1-10-12		FUNCTION OF REGULATOR NORMAL
9	7th Street	Haxall Canal	R & TF	1-10-12		NO BYPASS IN CANAL
8	8th Street	Haxall Canal	R & TF	1-10-12		NO BYPASS IN CANAL
7	Byrd Street	James River	R & TF	1-10-12		REGULATOR FUNCTION NORMAL
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF	1-5-12		NORMAL FLOW IN REGULATOR
17	Reedy Creek	James River	R & TF	1-5-12		NORMAL FLOW IN REGULATOR
16	Woodland Heights	James River	R & TF	1-5-12		LOW FLOW IN REGULATOR
15	Canoe Run	James River	R & TF	1-5-12		NORMAL FLOW IN REGULATOR
40	CSO-1 OUT/SSJRP	James River	RO	1-5-12		NO SIGN OF BYPASS IN RIVER
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	1-11-12		INSTALLED NEW GATES
34	19th and Dock Street	Richmond Dock Canal	R	1-11-12		NO SIGN OF BYPASS
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	1-9-12		REGULATOR FUNCTION NORMAL NO BYPASS
13	Maury Street	Manchester Canal	R	1-9-12		REGULATOR FUNCTION NORMAL NO BYPASS
21	Garden Avenue	James River	R	1-9-12		REGULATOR FUNCTION NORMAL NO BYPASS



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2017 Month FEB

Signature

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R	2-23-12		REGULATOR FUNCTION NORMAL NO BYPASS
3	Nicholson Street	James River	R	2-23-12		NORMAL FLOW NO BYPASS
4	Bloody Run	Gillies Creek	R	2-23-12		NORMAL FLOW NO BYPASS
5	Peach Street	James River	R	2-23-12		NORMAL FLOW NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	2-23-12		GATE CLOSED
24	Gillie and Varina Streets	Gillies Creek	R	2-23-12		NO SIGN OF BYPASS
25	Briel Street & Gillies Creek	Gillies Creek	R	2-23-12		NO SIGN OF BYPASS IN CREEK
26	Gov't Road and NSRR	Gillies Creek	R	2-16-12		NORMAL FLOW
27	New Williamsburg Road	Gillies Creek	R	2-16-12		NO SIGN OF BYPASS
28	Williamsburg Road	Gillies Creek	R	2-16-12		NO SIGN OF BYPASS IN CREEK
31	Oakwood Cemetery	Stoney Run	R	2-16-12		NORMAL FLOW IN REGULATORS
35	29th and Dock Street	Richmond Dock Canal	R	2-16-12		NO SIGN OF BYPASS IN RIVER
39	Gov't Road & Gillies Creek	Gillies Creek	R	2-16-12		REGULATOR NEED CLEANING NO BYPASS
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	2-22-12		NORMAL FLOW NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		2-17-12		NORMAL FUNCTION
	14th & Semmes Ave		PS	2-17-12		NORMAL FUNCTION ON PUMP
	Cary & Maple Ave	Main Connection to Henrico Co		2-17-12		NO FLOW PRESENT
	Maryland Ave	Connection to Henrico Co		2-17-12		NO FLOW PRESENT
	Seminary Ave	Connection to Henrico Co		2-17-12		NO FLOW PRESENT
	Pine Alley	Drain Boxes		2-17-12		NO SIGN OF BYPASS IN ALLEY

Type Device R = Regulator TG = Tide Gate W = Weir TF = Transfer Facility RO = River Outfall PS = Pump Station



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year	Month	Signature	CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area									
33				Shields Lake	Dooley Branch	W	2-15-12		NO SIGN OF BYPASS IN PARK
19				Hampton - Colorado		R	2-15-12		NORMAL FLOW NO BYPASS
19				Hampton - New York	James River	R	2-15-12		NORMAL FLOW NO BYPASS
McCloy Street CSO Area									
20				McCloy Street		R & TF	2-15-12		NORMAL FLOW NO REGULATOR AND TUNNEL
Northside James River Park CSO Area									
11				Park Hydro	James River	R & TF	2-16-12		NO SIGN OF BYPASS
10				Gambles Hill	Haxall Canal	R & TF	2-16-12		NORMAL FLOW
9				7th Street	Haxall Canal	R & TF	2-16-12		NO SIGN OF BYPASS IN CANAL
8				8th Street	Haxall Canal	R & TF	2-16-12		NO SIGN OF BYPASS
7				Byrd Street	James River	R & TF	2-16-12		NORMAL FLOW NO BYPASS ON JENET
Southside James River Park CSO Area									
18				42nd Street	James River	R & TF	2-9-12		NORMAL FLOW
17				Reedy Creek	James River	R & TF	2-9-12		NORMAL FLOW
16				Woodland Heights	James River	R & TF	2-9-12		REGULATOR STOP UP
15				Canoe Run	James River	R & TF	2-9-12		NORMAL FLOW
40				CSO-1 OUT/SSJRP	James River	RO	2-9-12		NO SIGN OF BYPASS IN RIVER
Shockoe Creek CSO Area									
6				Shockoe Creek	James River	TG	2-22-12		GATE CLOSED NO SIGN OF BYPASS
34				19th and Dock Street	Richmond Dock Canal	R	2-22-12		NO SIGN OF BYPASS IN CANAL
Wastewater Treatment Plant CSO Area									
14				Stockton Street	Manchester Canal	R	2-13-12		NORMAL FLOW NO BYPASS
13				Maury Street	Manchester Canal	R	2-13-12		NORMAL FLOW NO BYPASS
21				Garden Avenue	James River	R	2-13-12		NORMAL FLOW NO BYPASS



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month MARCH

Signature

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R	3-16-12		NORMAL FLOW NO BYPASS
3	Nicholson Street	James River	R	3-16-12		NORMAL FLOW NO BYPASS
4	Bloody Run	Gillies Creek	R	3-16-12		REGULATOR FUNCTION NORMAL
5	Peach Street	James River	R	3-16-12		NORMAL FLOW NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	3-16-12		GATE CLOSED
24	Gillie and Varina Streets	Gillies Creek	R	3-16-12		REGULATOR NEED CLEANING
25	Briel Street & Gillies Creek	Gillies Creek	R	3-18-12		NORMAL FLOW IN REGULATOR
26	Gov't Road and NSRR	Gillies Creek	R	3-18-12		REGULATOR FUNCTION NORMAL
27	New Williamsburg Road	Gillies Creek	R	3-18-12		NO SIGN OF BYPASS
28	Williamsburg Road	Gillies Creek	R	3-18-12		NO SIGN OF BYPASS
31	Oakwood Cemetery	Stoney Run	R	3-18-12		NO SIGN OF BYPASS
35	29th and Dock Street	Richmond Dock Canal	R	3-18-12		NO SIGN OF BYPASS IN CANAL
39	Gov't Road & Gillies Creek	Gillies Creek	R	3-18-12		REGULATOR FUNCTION NORMAL
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R			REGULATOR FUNCTION NORMAL
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		3-8-12		LAN RUNNING
	14th & Semmes Ave		PS	3-8-12		PUMPING STATION NORMAL
	Cary & Maple Ave	Main Connection to Henrico Co		3-8-12		NO SIGN OF FLOW
	Maryland Ave	Connection to Henrico Co		3-8-12		NO SIGN OF FLOW
	Seminary Ave	Connection to Henrico Co		3-8-12		NO SIGN OF FLOW
	Pine Alley	Drain Boxes		3-8-12		NO BYPASS IN ALLEY

Type Device R = Regulator TG = Tide Gate W = Weir TF = Transfer Facility RO = River Outfall PS = Pump Station



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year	Month	Signature	CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area									
			33	Shields Lake	Dooley Branch	W	3-13-12		NO SIGN OF BYPASS IN FIELD
			19	Hampton - Colorado		R	3-13-12		NORMAL FLOW IN REGULATOR
			19	Hampton - New York	James River	R	3-13-12		NORMAL FLOW IN REGULATOR
McCloy Street CSO Area									
			20	McCloy Street		R & TF			REGULATOR FUNCTION NORMAL
Northside James River Park CSO Area									
			11	Park Hydro	James River	R & TF	3-7-12		Flow diverted
			10	Gambles Hill	Haxall Canal	R & TF	3-7-12		Flow normal
			9	7th Street	Haxall Canal	R & TF	3-7-12		Flow normal
			8	8th Street	Haxall Canal	R & TF	3-7-12		Flow normal
			7	Byrd Street	James River	R & TF	3-7-12		NO SIGN OF BYPASS ADJUNCT
Southside James River Park CSO Area									
			18	42nd Street	James River	R & TF	3-5-12		NORMAL FLOW
			17	Reedy Creek	James River	R & TF	3-5-12		NORMAL FLOW
			16	Woodland Heights	James River	R & TF	3-5-12		REGULATOR STOPPED UP
			15	Canoe Run	James River	R & TF	3-5-12		NORMAL FLOW
			40	CSO-1 OUT/SS/IRP	James River	RO	3-5-12		NO SIGN OF BYPASS IN RIVER
Shockoe Creek CSO Area									
			6	Shockoe Creek	James River	TG	3-9-12		GATE CLOSED NO SIGN OF BYPASS
			34	19th and Dock Street	Richmond Dock Canal	R	3-9-12		NO SIGN OF BYPASS IN CANAL
Wastewater Treatment Plant CSO Area									
			14	Stockton Street	Manchester Canal	R	3-14-12		REGULATOR FUNCTION NORMAL
			13	Maury Street	Manchester Canal	R	3-14-12		NORMAL FLOW IN REGULATOR
			21	Garden Avenue	James River	R	3-14-12		NORMAL FLOW IN REGULATOR



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month April Signature

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R	4-23-12		NORMAL FLOW WITH NO BYPASS
3	Nicholson Street	James River	R	4-23-12		NORMAL FLOW WITH NO BYPASS
4	Bloody Run	Gillies Creek	R	4-23-12		NORMAL FLOW WITH NO BYPASS
5	Peach Street	James River	R	4-23-12		NORMAL FLOW WITH NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	4-23-12		GATE CLOSED NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	4-23-12		NORMAL FLOW WITH NO TRASH
25	Briel Street & Gillies Creek	Gillies Creek	R	4-23-12		NORMAL FLOW SMALL AMOUNT OF TRASH
26	Gov't Road and NSRR	Gillies Creek	R	4-23-12		NORMAL FLOW NO BYPASS
27	New Williamsburg Road	Gillies Creek	R	4-23-12		GATE CLOSED NO GROUND WATER
28	Williamsburg Road	Gillies Creek	R	4-23-12		NO BYPASS FROM CSO LINE
31	Oakwood Cemetery	Stoney Run	R	4-23-12		NORMAL FLOW WITH NO BYPASS
35	29th and Dock Street	Richmond Dock Canal	R	4-23-12		NORMAL FLOW WITH NO BYPASS
39	Gov't Road & Gillies Creek	Gillies Creek	R	4-23-12		NORMAL FLOW SMALL AMOUNT OF TRASH
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	4-24-12		NORMAL FLOW NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System	PS	4-26-12		BLOWER & TANK IS OK
	14th & Semmes Ave					
	Cary & Maple Ave	Main Connection to Henrico Co		4-26-12		NO WATER IN THE LINE
	Maryland Ave	Connection to Henrico Co		4-26-12		NO WATER IN THE LINE
	Seminary Ave	Connection to Henrico Co		4-26-12		NO WATER IN THE LINE
	Pine Alley	Drain Boxes		4-26-12		NO WATER STANDING IN THE BOX



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month April Signature

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area						
33	Shields Lake	Dooley Branch	W	4-19-12		NO SIGN OF BYPASS IN FIELD
19	Hampton - Colorado		R	4-19-12		REGULATOR FUNCTION NORMAL
19	Hampton - New York	James River	R	4-19-12		REGULATOR FUNCTION NORMAL
McCloy Street CSO Area						
20	McCloy Street		R & TF	4-25-12		NORMAL FLOW TO THE TUNNEL
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF	4-25-12		SMALL AMOUNT OF WATER TO REGULATOR
10	Gambles Hill	Haxall Canal	R & TF	4-25-12		NO BYPASS WHEN W.G.R.
9	7th Street	Haxall Canal	R & TF	4-25-12		NORMAL FLOW WITH NO BYPASS
8	8th Street	Haxall Canal	R & TF	4-25-12		NORMAL FLOW TO 7th ST REGULATOR
7	Byrd Street	James River	R & TF	4-25-12		NO BYPASS TO THE RIVER
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF	4-20-12		REGULATOR FUNCTION NORMAL
17	Reedy Creek	James River	R & TF	4-20-12		REGULATOR FUNCTION NORMAL
16	Woodland Heights	James River	R & TF	4-20-12		REGULATOR STOPPED UPON OUTGOING SIDE CHANNEL
15	Canoe Run	James River	R & TF	4-20-12		REGULATOR FUNCTION NORMAL
40	CSO-1 OUT/SSURP	James River	RO	4-20-12		NO SIGN OF BYPASS IN RIVER
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	4-24-12		BARRACK IS CLEANED ALL GATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R	4-24-12		NO BYPASS FROM MAIN ST LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	4-19-12		NORMAL FUNCTION OF REGULATOR
13	Maury Street	Manchester Canal	R	4-19-12		NO SIGN OF BYPASS IN CREEK
21	Garden Avenue	James River	R	4-19-12		REGULATOR FUNCTION NORMAL



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month MAY Signature [Signature]

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R	5-21-12		NORMAL FLOW NO BYPASS
3	Nicholson Street	James River	R	5-21-12		NORMAL FLOW NO BYPASS
4	Bloody Run	Gillies Creek	R	5-21-12		NORMAL FLOW NO BYPASS
5	Peach Street	James River	R	5-21-12		NORMAL FLOW NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	5-21-12		GATE CLOSED NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	5-21-12		NORMAL FLOW NO BYPASS
25	Briel Street & Gillies Creek	Gillies Creek	R	5-21-12		NORMAL FLOW NO BYPASS
26	Gov't Road and NSRR	Gillies Creek	R	5-21-12		NORMAL FLOW NO BYPASS
27	New Williamsburg Road	Gillies Creek	R	5-21-12		GATE CLOSED NO GROUND WATER
28	Williamsburg Road	Gillies Creek	R	5-21-12		NO OVER FLOW FROM CSO LUG
31	Oakwood Cemetery	Stoney Run	R	5-21-12		NORMAL FLOW WITH NO BYPASS
35	29th and Dock Street	Richmond Dock Canal	R	5-21-12		NO OVER FLOW FROM MAIN LIME
39	Gov't Road & Gillies Creek	Gillies Creek	R	5-21-12		NORMAL FLOW WITH NO BYPASS
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	5-21-12		NORMAL FLOW WITH NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System	PS	5-23-12		TANK & BLOWER IS OK
	14th & Semmes Ave			5-23-12		
	Cary & Maple Ave	Main Connection to Henrico Co		5-22-12		NO WATER IN LIME
	Maryland Ave	Connection to Henrico Co		5-22-12		NO WATER IN LIME
	Seminary Ave	Connection to Henrico Co		5-22-12		NO WATER IN LIME
	Pine Alley	Drain Boxes		5-22-12		NO WATER STANDING IN BOX



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012

Month May

Signature

[Handwritten Signature]

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area						
33	Shields Lake	Dooley Branch	W	5-22-12		NO WATER OVER WEIR
19	Hampton - Colorado		R	5-22-12		NORMAL FLOW WITH NO BYPASS
19	Hampton - New York	James River	R	5-22-12		NORMAL FLOW WITH NO BYPASS
McCloy Street CSO Area						
20	McCloy Street		R & TF	5-22-12		NORMAL FLOW TO THE TUNNEL
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF	5-23-12		SMALL AMOUNT OF WATER TO REGULATED
10	Gambles Hill	Haxall Canal	R & TF	5-23-12		NO WATER OVER WEIR
9	7th Street	Haxall Canal	R & TF	5-23-12		NORMAL FLOW WITH NO BYPASS
8	8th Street	Haxall Canal	R & TF	5-23-12		NORMAL FLOW TO 7th STREET REGULATOR
7	Byrd Street	James River	R & TF	5-23-12		NO OVER FLOW KNOWN CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF	5-18-12		NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R & TF	5-18-12		NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R & TF	5-18-12		STOP UP WITH SAND IN REGULATOR
15	Canoe Run	James River	R & TF	5-18-12		NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSURP	James River	RO	5-18-12		NO OVER FLOW IN THE RIVER
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	5-23-12		32" RACK ULGRADED ALL STATES ARE VLSGD
34	19th and Dock Street	Richmond Dock Canal	R	5-23-12		NO OVER FLOW FROM MAIN ST. LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	5-24-12		NORMAL FLOW WITH NO BYPASS
13	Maury Street	Manchester Canal	R	5-24-12		NO FLOW TO REGULATOR
21	Garden Avenue	James River	R	5-24-12		NORMAL FLOW WITH NO BYPASS



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month JUNE Signature [Signature]

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R		6-21-12	CLEANED AROUND REGULATION
3	Nicholson Street	James River	R		6-21-12	CLEANED AROUND REGULATION
4	Bloody Run	Gillies Creek	R		6-21-12	CLEANED AROUND REGULATION
5	Peach Street	James River	R		6-21-12	CLEANED AROUND REGULATION
23	Old Fulton Street Bridge	Gillies Creek	R		6-21-12	GATE CLOSED NO GROUNDWATER
24	Gillie and Varina Streets	Gillies Creek	R		6-20-12	CLEANED AROUND REGULATION
25	Briel Street & Gillies Creek	Gillies Creek	R		6-20-12	CLEANED AROUND REGULATION
26	Gov't Road and NSRR	Gillies Creek	R		6-20-12	CLEANED REGULATION
27	New Williamsburg Road	Gillies Creek	R		6-20-12	GATE CLOSED NO GROUNDWATER
28	Williamsburg Road	Gillies Creek	R		6-20-12	NO OVER FLOW FROM CSO LINE
31	Oakwood Cemetery	Stoney Run	R		6-21-12	CLEANED REGULATION
35	29th and Dock Street	Richmond Dock Canal	R		6-21-12	NEED TO BE CLEANED NO ROAD
39	Gov't Road & Gillies Creek	Gillies Creek	R		6-21-12	CLEANED REGULATION
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R		6-21-12	CLEANED REGULATION
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System	PS		6-26-12	THICK & BLOWN IS CK
	14th & Semmes Ave				6-26-12	NO WATER IN LINE
	Cary & Maple Ave	Main Connection to Henrico Co			6-26-12	NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co			6-26-12	NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co			6-26-12	NO WATER IN LINE
	Pine Alley	Drain Boxes			6-26-12	NO WATER STANDING IN DRAIN BOX



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012

Month JUNE

Signature

[Handwritten Signature]

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area						
33	Shields Lake	Dooley Branch	W		6-25-12	NO WATER OVER WEIR
19	Hampton - Colorado		R		6-25-12	NORMAL FLOW
19	Hampton - New York	James River	R		6-25-12	NORMAL FLOW
McCloy Street CSO Area						
20	McCloy Street		R & TF		6-25-12	NORMAL FLOW
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF		6-26-12	SMALL AMOUNT OF WATER TO REGULATOR
10	Gambles Hill	Haxall Canal	R & TF		6-26-12	NO WATER OVER WEIR
9	7th Street	Haxall Canal	R & TF		6-26-12	NORMAL FLOW
8	8th Street	Haxall Canal	R & TF		6-26-12	NORMAL FLOW TO THE REGULATOR
7	Byrd Street	James River	R & TF		6-26-12	NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF		6-29-12	NORMAL FLOW
17	Reedy Creek	James River	R & TF		6-29-12	NORMAL FLOW
16	Woodland Heights	James River	R & TF		6-29-12	NORMAL FLOW
15	Canoe Run	James River	R & TF		6-29-12	NORMAL FLOW
40	CSO-1 OUT/SSRP	James River	RO		6-29-12	NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG		6-25-12	BAR RACK IS CLEANED ALL RATES CLOSED
34	19th and Dock Street	Richmond Dock Canal	R		6-25-12	NO OVER FLOW FROM CSO LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R		6-28-12	NORMAL FLOW
13	Maury Street	Manchester Canal	R		6-28-12	NO FLOW TO THE REGULATOR
21	Garden Avenue	James River	R		6-28-12	NORMAL FLOW TO THE PLANT



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month July Signature Steve Blackmore

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R		7-2-12	NORMAL FLOW WITH NO BYPASS
3	Nicholson Street	James River	R		7-3-12	NORMAL FLOW WITH NO BYPASS
4	Bloody Run	Gillies Creek	R		7-2-12	NORMAL FLOW WITH NO BYPASS
5	Peach Street	James River	R		7-2-12	NORMAL FLOW WITH NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	7-2-12		GATE CLOSED NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R		7-2-12	NORMAL FLOW WITH NO BYPASS
25	Briel Street & Gillies Creek	Gillies Creek	R		7-2-12	NORMAL FLOW WITH NO BYPASS
26	Gov't Road and NSRR	Gillies Creek	R		7-2-12	NORMAL FLOW WITH NO BYPASS
27	New Williamsburg Road	Gillies Creek	R	7-2-12		GATE CLOSED NO GROUND WATER
28	Williamsburg Road	Gillies Creek	R		7-2-12	NORMAL FLOW WITH NO BYPASS
31	Oakwood Cemetery	Stoney Run	R		7-2-12	NORMAL FLOW WITH NO BYPASS
35	29th and Dock Street	Richmond Dock Canal	R	7-2-12		NEED A ROAD TO BE CLEANED
39	Gov't Road & Gillies Creek	Gillies Creek	R		7-2-12	NORMAL FLOW WITH NO BYPASS
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R		7-2-12	NORMAL FLOW WITH NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System	PS		7-5-12	TANK 7 BLOWER IS OK
	14th & Semmes Ave			Daily		7-5-12 NO WATER IN LINE
	Cary & Maple Ave	Main Connection to Henrico Co			7-5-12	NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co			7-5-12	NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co			7-5-12	NO WATER IN LINE
	Pine Alley	Drain Boxes			7-5-12	NO WATER STANDING IN DRAIN BOX

Type Device R = Regulator TG = Tide Gate W = Weir TF = Transfer Facility RO = River Outfall PS = Pump Station



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month July Signature Steve Blakeney

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area						
33	Shields Lake	Dooley Branch	W	7-3-12		NO WATER OVER WEIR
19	Hampton - Colorado		R		7-3-12	NORMAL FLOW WITH NO BYPASS
19	Hampton - New York	James River	R		7-3-12	NORMAL FLOW WITH NO BYPASS
McCloy Street CSO Area						
20	McCloy Street		R & TF	7-3-12		NORMAL FLOW TO THE STATION
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF		7-5-12	SMALL AMOUNT OF WATER TO REGULATOR
10	Gambles Hill	Haxall Canal	R & TF		7-5-12	NO WATER OVER WEIR
9	7th Street	Haxall Canal	R & TF		7-5-12	NORMAL FLOW TO THE REGULATOR
8	8th Street	Haxall Canal	R & TF		7-5-12	NORMAL FLOW TO 7th ST REGULATOR
7	Byrd Street	James River	R & TF		7-5-12	NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF		7-4-12	NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R & TF		7-4-12	NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R & TF		7-4-12	NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R & TF		7-4-12	NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	7-4-12		NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	7-4-12		BAIR BACK IS CLEANED ALL GATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R	7-4-12		NO OVER FLOW FROM WAINING ST CSO
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R		7-3-12	NORMAL FLOW WITH NO BYPASS
13	Maury Street	Manchester Canal	R		7-3-12	NO FLOW TO THE REGULATOR
21	Garden Avenue	James River	R		7-3-12	NORMAL FLOW WITH NO BYPASS



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month August Signature [Signature]

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R	8-6-12		NORMAL FLOW WITH NO BYPASS
3	Nicholson Street	James River	R	8-6-12		NORMAL FLOW WITH NO BYPASS
4	Bloody Run	Gillies Creek	R	8-6-12		NORMAL FLOW WITH NO BYPASS
5	Peach Street	James River	R	8-6-12		NORMAL FLOW WITH NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	8-6-12		GATE CLOSED NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	8-6-12		NORMAL FLOW WITH NO BYPASS
25	Briel Street & Gillies Creek	Gillies Creek	R	8-6-12		NORMAL FLOW WITH NO BYPASS
26	Gov't Road and NSRR	Gillies Creek	R	8-6-12		NORMAL FLOW WITH NO BYPASS
27	New Williamsburg Road	Gillies Creek	R	8-6-12		NORMAL FLOW FROM CSO LINE
28	Williamsburg Road	Gillies Creek	R	8-6-12		GATE CLOSED NO GROUND WATER
31	Oakwood Cemetery	Stoney Run	R	8-6-12		NORMAL FLOW WITH NO BYPASS
35	29th and Dock Street	Richmond Dock Canal	R	8-6-12		TO CLEANED NEED A ROAD TO REGULATE
39	Gov't Road & Gillies Creek	Gillies Creek	R	8-6-12		NORMAL FLOW WITH NO BYPASS
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	8-6-12		NORMAL FLOW WITH NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System	PS	8-8-12		TANK & BLOWER IS OK
	14th & Semmes Ave					
	Cary & Maple Ave	Main Connection to Henrico Co		8-8-12		CONNECTION LINE IS DRY
	Maryland Ave	Connection to Henrico Co		8-8-12		CONNECTION LINE IS DRY
	Seminary Ave	Connection to Henrico Co		8-8-12		CONNECTION LINE IS DRY
	Pine Alley	Drain Boxes		8-8-12		NO WATER STANDING IN DRAIN BOX



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year	2012	Month	August	Signature	PM Date	Services Performed
CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	Hampton Street CSO Area	
33	Shields Lake	Dooley Branch	W	8-7-12	NO WATER OVER THE WEIR	
19	Hampton - Colorado		R	8-7-12	NORMAL FLOW	
19	Hampton - New York	James River	R	8-7-12	NORMAL FLOW	
McCloy Street CSO Area						
20	McCloy Street		R & TF	8-7-12	NORMAL FLOW TO THE TUNNEL	
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF	8-7-12	SMALL AMOUNT OF WATER TO THE REGULATOR	
10	Gambles Hill	Haxall Canal	R & TF	8-7-12	NO WATER OVER WEIR	
9	7th Street	Haxall Canal	R & TF	8-7-12	NORMAL FLOW WITH NO BYPASS	
8	8th Street	Haxall Canal	R & TF	8-7-12	NORMAL FLOW TO 7th ST REGULATOR	
7	Byrd Street	James River	R & TF	8-7-12	NO OVER FLOW FROM CSO LINE	
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF	8-9-12	NORMAL FLOW WITH NO BYPASS	
17	Reedy Creek	James River	R & TF	8-9-12	NORMAL FLOW WITH NO BYPASS	
16	Woodland Heights	James River	R & TF	8-9-12	NORMAL FLOW WITH NO BYPASS	
15	Canoes Run	James River	R & TF	8-9-12	NORMAL FLOW WITH NO BYPASS	
40	CSO-1 OUT/SSJRP	James River	RO	8-9-12	NO OVER FLOW FROM CSO LINE	
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	8-8-12	BARRACK IS CLEANED, ALL VATES ARE CLOSED	
34	19th and Dock Street	Richmond Dock Canal	R	8-8-12	NO OVER FLOW FROM CSO LINE	
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	8-9-12	NORMAL FLOW WITH NO BYPASS VATES CLOSED	
13	Maury Street	Manchester Canal	R	8-9-12	NO SLOW TO REGULATOR, VATES CLOSED	
21	Garden Avenue	James River	R	8-9-12	NO OVER FLOW, VATES CLOSED	



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012

Month September

Signature

[Handwritten Signature]

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R		9-25-12	NORMAL FLOW
3	Nicholson Street	James River	R		9-25-12	NORMAL FLOW
4	Bloody Run	Gillies Creek	R		9-25-12	NORMAL FLOW
5	Peach Street	James River	R		9-25-12	NORMAL FLOW
23	Old Fulton Street Bridge	Gillies Creek	R		9-25-12	GATE CLOSED NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R		9-25-12	NORMAL FLOW
25	Briel Street & Gillies Creek	Gillies Creek	R		9-25-12	NORMAL FLOW
26	Gov't Road and NSRR	Gillies Creek	R		9-25-12	NORMAL FLOW
27	New Williamsburg Road	Gillies Creek	R		9-25-12	GATE CLOSED NO GROUND WATER
28	Williamsburg Road	Gillies Creek	R		9-25-12	NO OVER FLOW FROM CSO LINE
31	Oakwood Cemetery	Stoney Run	R		9-25-12	NORMAL FLOW
35	29th and Dock Street	Richmond Dock Canal	R		9-25-12	NO OVER FLOW FROM CSO LINE
39	Gov't Road & Gillies Creek	Gillies Creek	R		9-25-12	NORMAL FLOW
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R		9-25-12	NORMAL FLOW
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System			9-24-12	TANK & BLOWER IS OK
	14th & Semmes Ave	DAILY INSPECTIONS			9-24-12	
	Cary & Maple Ave	Main Connection to Henrico Co			9-24-12	NO WATER IN THE LINE
	Maryland Ave	Connection to Henrico Co			9-24-12	NO WATER IN THE LINE
	Seminary Ave	Connection to Henrico Co			9-24-12	NO WATER IN THE LINE
	Pine Alley	Drain Boxes			9-24-12	NO WATER STANDING IN DRAIN BOX



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month September Signature [Signature]

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area						
33	Shields Lake	Dooley Branch	W		9-26-12	NO WATER OVER WEIR
19	Hampton - Colorado		R		9-26-12	NORMAL FLOW WITH NO BYPASS
19	Hampton - New York	James River	R		9-26-12	NORMAL FLOW TO THE STATION
McCloy Street CSO Area						
20	McCloy Street		R & TF		9-26-12	NORMAL FLOW TO THE TUNNEL
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF		9-21-12	SMALL AMOUNT OF WATER TO REGULATOR
10	Gambles Hill	Haxall Canal	R & TF		9-21-12	NO WATER OVER WEIR
9	7th Street	Haxall Canal	R & TF		9-21-12	NORMAL FLOW WITH NO BYPASS
8	6th Street	Haxall Canal	R & TF		9-21-12	NORMAL FLOW TO TEST REGULATOR
7	Byrd Street	James River	R & TF		9-21-12	NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF		9-21-12	NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R & TF		9-21-12	NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R & TF		9-21-12	NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R & TF		9-21-12	NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO		9-21-12	NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG		9-28-12	BACK CLEARED ALL BATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R		9-28-12	NO OVER FLOW FROM MAIN ST CSO LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R		9-26-12	NORMAL FLOW WITH NO BYPASS
13	Maury Street	Manchester Canal	R		9-26-12	NO FLOW TO REGULATOR
21	Garden Avenue	James River	R		9-26-12	NORMAL FLOW WITH NO BYPASS



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month Oct Signature *[Signature]*

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R	10-25-12		NORMAL FLOW with NO BYPASS
3	Nicholson Street	James River	R	10-25-12		NORMAL FLOW with NO BYPASS
4	Bloody Run	Gillies Creek	R	10-25-12		NORMAL FLOW with NO BYPASS
5	Peach Street	James River	R	10-25-12		NORMAL FLOW with NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	10-25-12		GATE CLOSED NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	10-25-12		NORMAL FLOW with NO BYPASS
25	Briel Street & Gillies Creek	Gillies Creek	R	10-25-12		NORMAL FLOW with NO BYPASS
26	Gov't Road and NSRR	Gillies Creek	R	10-25-12		GATE CLOSED NO GROUND WATER
27	New Williamsburg Road	Gillies Creek	R	10-25-12		NO OVER FLOW FROM QSO LINE
28	Williamsburg Road	Gillies Creek	R	10-25-12		NO OVER FLOW FROM QSO LINE
31	Oakwood Cemetery	Stoney Run	R	10-25-12		NORMAL FLOW with NO BYPASS
35	29th and Dock Street	Richmond Dock Canal	R	10-25-12		NEED TO BE CLEANED
39	Gov't Road & Gillies Creek	Gillies Creek	R	10-25-12		NORMAL FLOW with NO BYPASS
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	10-25-12		NORMAL FLOW with NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System	PS	10-26-12		TANK & BLOWER IS OK
	14th & Semmes Ave					
	Cary & Maple Ave	Main Connection to Henrico Co		10-26-12		NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co		10-26-12		NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co		10-26-12		NO WATER IN LINE
	Pine Alley	Drain Boxes		10-26-12		NO WATER STANDING IN DRAIN BOX

Type Device R = Regulator TG = Tide Gate W = Weir TF = Transfer Facility RO = River Outfall PS = Pump Station



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month Oct. Signature [Signature]

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area						
33	Shields Lake	Dooley Branch	W	10-26-12		NO WATER OVER WEIR
19	Hampton - Colorado		R	10-26-12		NORMAL FLOW WITH NO BYPASS
19	Hampton - New York	James River	R	10-26-12		NORMAL FLOW WITH NO BYPASS
McCloy Street CSO Area						
20	McCloy Street		R & TF	11-26-12		NORMAL FLOW WITH NO BYPASS
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF	11-1-12		NORMAL FLOW WITH NO BYPASS
10	Gambles Hill	Haxall Canal	R & TF	11-1-12		NO WATER OVER WEIR
9	7th Street	Haxall Canal	R & TF	11-1-12		NORMAL FLOW WITH NO BYPASS
8	8th Street	Haxall Canal	R & TF	11-1-12		NORMAL FLOW TO 7 th ST. REGULATOR
7	Byrd Street	James River	R & TF	11-1-12		NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF	11-2-12		NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R & TF	11-2-12		NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R & TF	11-2-12		NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R & TF	11-2-12		NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	11-2-12		NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	11-1-12		BAC BACK IS CLEANED ALL GATES CLOSED
34	19th and Dock Street	Richmond Dock Canal	R	11-1-12		NO OVER FLOW FROM CSO LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	11-2-12		NORMAL FLOW WITH NO BYPASS
13	Maury Street	Manchester Canal	R	11-2-12		NO FLOW TO REGULATOR
21	Garden Avenue	James River	R	11-2-12		NORMAL FLOW WITH NO BYPASS



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year	2012	Month	NOV	Signature		
CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area						
33	Shields Lake	Dooley Branch	W		11-13-12	NO WATER OVER WGIN
19	Hampton - Colorado		R		11-13-12	NORMAL FLOW WITH NO BYPASS
19	Hampton - New York	James River	R		11-13-12	NORMAL FLOW WITH NO BYPASS
McCloy Street CSO Area						
20	McCloy Street		R & TF		11-13-12	NORMAL FLOW TO THE TUNNEL
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF		11-14-12	SMALL AMOUNT OF WATER TO REGULATOR
10	Gambles Hill	Haxall Canal	R & TF		11-14-12	NO WATER OVER WGIN
9	7th Street	Haxall Canal	R & TF		11-14-12	NORMAL FLOW NO BYPASS
8	8th Street	Haxall Canal	R & TF		11-14-12	NORMAL FLOW TO 7th ST REGULATOR
7	Byrd Street	James River	R & TF		11-14-12	NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF		11-15-12	NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R & TF		11-15-12	NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R & TF		11-15-12	NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R & TF		11-15-12	NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO		11-15-12	NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG		11-15-12	BACK RACK IS CLEARED ALL GATE ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R		11-15-12	NO OVER FLOW FROM CSO LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R		11-16-12	NORMAL FLOW WITH NO BYPASS
13	Maury Street	Manchester Canal	R		11-16-12	NO WATER FLOW TO REGULATOR
21	Garden Avenue	James River	R		11-16-12	NORMAL FLOW WITH NO BYPASS

Type Device R = Regulator TG = Tide Gate W = Weir TF = Transfer Facility RO = River Outfall PS = Pump Station



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year	Month	Signature	CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area									
			2	Orleans Street	James River	R		11-19-12	NORMAL FLOW NO BYPASS
			3	Nicholson Street	James River	R		11-19-12	NORMAL FLOW NO BYPASS
			4	Bloody Run	Gillies Creek	R		11-19-12	NORMAL FLOW NO BYPASS
			5	Peach Street	James River	R		11-19-12	NORMAL FLOW NO BYPASS
			23	Old Fulton Street Bridge	Gillies Creek	R		11-19-12	GATE CLOSED NO GROUND WATER
			24	Gillie and Varina Streets	Gillies Creek	R		11-19-12	GATE CLOSED NO BYPASS
			25	Briel Street & Gillies Creek	Gillies Creek	R		11-19-12	NORMAL FLOW NO BYPASS
			26	Gov't Road and NSRR	Gillies Creek	R		11-19-12	NORMAL FLOW NO BYPASS
			27	New Williamsburg Road	Gillies Creek	R		11-19-12	GATE CLOSED NO GROUND WATER
			28	Williamsburg Road	Gillies Creek	R		11-19-12	NO OVER FLOW FROM CSO LINE
			31	Oakwood Cemetery	Stoney Run	R		11-19-12	NORMAL FLOW WITH NO BYPASS
			35	29th and Dock Street	Richmond Dock Canal	R		11-19-12	NEEDED TO BE CLEANED NO ROAD
			39	Gov't Road & Gillies Creek	Gillies Creek	R		11-19-12	NORMAL FLOW WITH NO BYPASS
Hilton Street CSO Area									
			12	Hilton Street	Almond Creek	R		11-19-12	NORMAL FLOW WITH BYPASS
Miscellaneous Structures									
				Odor Room Canal Walk	Odor Control System	PS		11-14-12	TANK & BLOWER NORMAL OPERATION
				14th & Semmes Ave					
				Cary & Maple Ave	Main Connection to Henrico Co			11-14-12	NO WATER IN LINE
				Maryland Ave	Connection to Henrico Co			11-14-12	NO WATER IN LINE
				Seminary Ave	Connection to Henrico Co			11-14-12	NO WATER IN LINE
				Pine Alley	Drain Boxes			11-14-12	NO WATER STANDING IN DRAIN BOX



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month December Signature [Signature] Michael Smith

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Hampton Street CSO Area						
33	Shields Lake	Dooley Branch	W	12/3/12		NO WATER OVER THE WEIR
19	Hampton - Colorado		R	12/3/12		NORMAL FLOW WITH NO BYPASS
19	Hampton - New York	James River	R	12/3/12		NORMAL FLOW WITH NO BYPASS
McCloy Street CSO Area						
20	McCloy Street		R & TF	12/3/12		NORMAL FLOW TO THE TUNNEL
Northside James River Park CSO Area						
11	Park Hydro	James River	R & TF	12/3/12		NO FLOW IN REGULATOR
10	Gambles Hill	Haxall Canal	R & TF	12/3/12		NO WATER OVER THE WEIRS
9	7th Street	Haxall Canal	R & TF	12/3/12		NORMAL FLOW TO 7th ST REGULATOR WITH NO BYPASS
8	8th Street	Haxall Canal	R & TF	12/3/12		NORMAL FLOW TO 7th ST REGULATOR
7	Byrd Street	James River	R & TF	12/3/12		NORMAL FLOW FOR THE CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R & TF	12/4/12		NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R & TF	12/4/12		NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R & TF	12/4/12		NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R & TF	12/4/12		NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	12/4/12		NO OVERFLOW FROM LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	12/3/12		Gate RACKS CLEAN - ALL GATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R	12/3/12		NO OVERFLOW FROM CSO LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	12/3/12		NORMAL FLOW WITH NO BYPASS
13	Maury Street	Manchester Canal	R	12/3/12		NO WATER FLOW TO REGULATOR
21	Gorden Avenue	James River	R	12/3/12		GATE CLOSED - NO FLOWING OBJECTS, NORMAL FLOW

Type Device R = Regulator TG = Tide Gate W = Weir TF = Transfer Facility RO = River Outfall PS = Pump Station



City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

CSO Controls Structures Monthly Inspection Summary

Year 2012 Month DECEMBER Signature [Signature] Michael Smith

CSO #	CSO Name	Receiving Water	Type Device	Inspection Date	PM Date	Services Performed
Gillies Creek CSO Area						
2	Orleans Street	James River	R	12/3/12		Normal Flow with no Bypass
3	Nicholson Street	James River	R	12/3/12		Normal Flow with no Bypass
4	Bloody Run	Gillies Creek	R	12/3/12		Normal Flow with no Bypass
5	Peach Street	James River	R	12/3/12		Normal Flow with no Bypass
23	Old Fulton Street Bridge	Gillies Creek	R	12/4/12		Gate closed and no green water
24	Gillie and Varina Streets	Gillies Creek	R	12/3/12		Normal Flow with no Bypass
25	Briel Street & Gillies Creek	Gillies Creek	R	12/4/12		Normal Flow - no Bypass
26	Gov't Road and NSRR	Gillies Creek	R	12/4/12		Normal Flow with no Bypass
27	New Williamsburg Road	Gillies Creek	R	12/3/12		Gate closed no green water
28	Williamsburg Road	Gillies Creek	R	12/3/12		NO OVER FLOW FROM CSO LANE
31	Oakwood Cemetery	Stoney Run	R	12/4/12		Normal Flow with no Bypass
35	29th and Dock Street	Richmond Dock Canal	R	12/3/12		NO ROAD, NEEDS TO BE CLEARED
39	Gov't Road & Gillies Creek	Gillies Creek	R	12/4/12		Normal Flow with no Bypass
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	12/3/12		Normal Flow with no Bypass
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		12/3/12		Odor Control system is on
	14th & Semmes Ave		PS	12/3/12		
	Cary & Maple Ave	Main Connection to Henrico Co		12/3/12		
	Maryland Ave	Connection to Henrico Co		12/3/12		CSO is Dry
	Seminary Ave	Connection to Henrico Co		12/3/12		CSO is Dry
	Pine Alley	Drain Boxes		12/3/12		

Combined Sewer System Report for 2012

APPENDIX 4-2

Pump Stations



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

P221683

YEAR >

2012

CIRCLE THE MONTH (JAN) FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description:	WWTP PUMP STATIONS - HAMPTON, DOUGLASDALE, UPHAMBROOK, MCCLOY
Asset Location:	4 Different Locations Based on Location of Pump Station
PM Frequency:	Monthly

DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	Readings	Flow	NAME
1/1/12	1735.08	5322.5	O/S	56208	730,000	MS, SB, PA
1/2/12	1735.08	5341.7	O/S	56280	720,000	PA, 3A, MS
1/3/12	1735.08	5351.9	O/S	56357	770,000	CB, JW, SB
1/4/12	1735.08	5361.4	O/S	56428	710,000	CB, JW, SB
1/5/12	1735.08	5372.9	O/S	56514	840,000	CB, SB, JW
1/6/12	1735.08	5381.3	O/S	56577	630,000	CB, SB, JW
1-7-12	1735.08	5390.1	O/S	56642	650,000	SB, SM, SS
1-8-12	1735.08	5400.3	O/S	56717	750,000	SB, SM, SS
1-9-12	1735.08	5410.8	O/S	56794	770,000	SB, JW, CB
1-10-12	1735.08	5423.2	O/S	56887	930,000	SB, JW, CB
1-11-12	1735.08	5433.0	O/S	56958	710,000	CB, JW, SB
1-12-12	1736.19	5450.8	O/S	57270	3,120,000	CB, JW, SB
1-13-12	1736.19	5461.6	O/S	57330	400,000	CB, SB, JW
1-14-12	1736.19	5471.3	O/S	57423	730,000	MS, SB, WP
1-15-12	1736.19	5481.5	O/S	57500	770,000	MS, SB, WP
1-16-12	1737.08	5489.6	O/S	57571	710,000	SB, MS, WP
1-17-12	1742.33	5490.6	O/S	57650	1,330,000	CB, SB, JW
1-18-12	1742.39	5500.4	O/S	57722	720,000	CB, CB, SB
1-19-12	1745.17	5506.5	O/S	57803	810,000	SB, RP
1-20-12	1750.25	5506.5	O/S	57871	680,000	SB, RP
1-21-12	1753.57	5511.4	O/S	57949	780,000	SB, MS, DA
1-22-12	1750.20	5519.7	O/S	58037	108,000	SB, MS, DA
1-23-12	1761.85	5520.6	O/S	58147	900,000	CB, JW
1-24-12	1765.54	5521.8	O/S	58215	680,000	SB, CB, JW
1-25-12	1769.27	5523.1	O/S	58289	740,000	CB, JW, SB
1-26-12	1772.84	5524.3	O/S	58355	620,000	CB, JW, SB
1-27-12	1777.39	5525.3	O/S	58433	780,000	CB, JW, SB
1-28-12	1781.68	58494	O/S	58494	600,000	PA, 3A, PA, CB
1-29-12	1786.54	5525.4	O/S	58561	670,000	DA, 3A, CB, SB
1-30-12	1791.05	5525.4	O/S	58631	700,000	CB, JW, SB
1-31-12	1796.37	5525.4	O/S	58696	630,000	CB, JW, SB

Signature

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Date

Feb 1 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

P221870

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON, DOUGLASDALE, UPHAMSBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005210	0005213	0005214	Readings	Flow	NAME
2-1-12	1801.00	5525.4	0/S	58760	(40,000)	CB, JW SB
2-2-12	1808.38	5525.4	0/S	58774	140,000	CB, SB, JW
2-3-12	1816.96	5526.4	0/S	5900.3	129,000	CB, SB, JW
2-4-12	1820.38	5527.0	0/S	59050	470,000	FOX, PETE, NICKS
2-5-12	1825.27	5527.0	0/S	59118	680,000	FOX, PETE, NICKS
2-6-12	1830.73	5527.0	0/S	59195	710,000	CB, SB
2-7-12	1835.86	5527.0	0/S	59266	710,000	CB, SB, JW
2-8-12	1840.47	5527.0	0/S	59330	640,000	CB, SB, JW
2-9-12	1846.27	5527.0	0/S	59410	800,000	CB, SB, JW
2-10-12	1851.68	5527.0	0/S	59485	750,000	CB, SB, JW
2-11-12	1856.98	5527.0	0/S	59559	740,000	CB, SB, JW
2-12-12	1861.88	5527.0	0/S	59624	670,000	CB, SB, JW
2-13-12	1867.04	5527.0	0/S	59697	710,000	CB, SB
2-14-12	1872.45	5527.0	0/S	59772	750,000	CB, SB, JW
2-15-12	1877.87	5527.0	0/S	59844	740,000	CB, SB, JW
2-16-12	1883.45	5527.0	0/S	59922	760,000	SB, JW
2-17-12	1889.85	5527.0	0/S	60011	890,000	SB, JW
2-18-12	1894.68	5527.0	0/S	60077	660,000	MS, JP, WR
2-19-12	1899.51	5527.0	0/S	60142	650,000	MS, WR, RP
2-20-12	1908.72	5527.0	0/S	60220	1,280,000	MS, WR, RP
2-21-12	1918.19	5527.0	0/S	60400	1,300,000	CB, JW, SB
2-22-12	1925.60	5527.0	0/S	60503	1,030,000	CB, JW
2-23-12	1931.24	5527.0	0/S	60580	770,000	SB, JW
2-24-12	1936.88	5527.0	0/S	60657	770,000	CB, JW, SB
2-25-12	1942.41	5527.0	0/S	60733	760,000	MS, CB, RP
2-26-12	1947.42	5527.0	0/S	60802	690,000	MS, CB, RP
2-27-12	1952.60	5527.0	0/S	60873	710,000	CB, JW, SB
2-28-12	1958.94	5527.0	0/S	60958	850,000	CB, JW, SB
2-29-12	1963.36	5527.1	0/S	61023	650,000	CB, SB, JW

Signature

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Date

2-29-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

Douglasdale **HAMPTON PUMP STATION**
MONTHLY PUMP READINGS

WORK ORDER # P222/43 YEAR > 2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASDALE, UPHAMSBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
3-1-12	1986.50	5533.0	O/S	61427	4040000	SB, CB, JW
3-2-12	1996.39	5532.3	O/S	61571	1,440,000	CB, SB, JW
3-3-12	2014.20	5533.7	O/S	61845	2,740,000	SB, DA, SS
3-4-12	2022.43	5533.7	O/S	61961	1,160,000	SB, SS, DA
3-5-12	2028.64	5533.7	O/S	62047	860,000	CB, SB, JW
3-6-12	2035.96	5533.7	O/S	62148	1,010,000	CB, SB, JW
3-7-12	2040.73	5533.7	O/S	62215	670,000	CB, SB, JW
3-8-12	2046.55	5533.7	O/S	62295	900,000	CB, SB, JW
3-9-12	2054.38	5534.3	O/S	62413	1,180,000	CB, SB, JW
3-10-12	2061.85	5534.9	O/S	62526	1,130,000	CB, SB, PA
3-11-12	2066.93	5534.9	O/S	62576	700,000	CB, CB, PA
3-12-12	2072.58	5534.9	O/S	62673	770,000	CB, SB, JW
3-13-12	2079.13	5534.9	O/S	62764	910,000	CB, SB, JW
3-14-12	2084.84	5534.9	O/S	62893	790,000	CB, SB, JW
3-15-12	2090.46	5534.9	O/S	62921	780,000	SB, CB, JW
3-16-12	2095.99	5534.9	O/S	62997	760,000	SB, JW
3-17-12	2101.75	5534.9	O/S	63075	780,000	SB, SS, SM
3-18-12	2105.04	5534.9	O/S	63129	480,000	SB, SS, SM
3-19-12	2111.04	5534.9	O/S	63204	750,000	SB, JW
3-20-12	2116.75	5534.9	O/S	63283	790,000	SB, JW
3-21-12	2121.24	5535.4	O/S	63359	1,040,000	SB, JW
3-22-12	2127.57	5535.4	O/S	63438	2,170,000	AW, H.M
3-23-12	2142.72	5537.7	O/S	63687	3,410,000	AW, H.M
3-24-12	2148.37	5537.7	O/S	63766	740,000	CB, WR, RP
3-25-12	2158.12	5537.7	O/S	63927	1,710,000	CB, WR, RP
3-26-12	2169.88	5541.4	O/S	64125	1,580,000	CB, JW
3-27-12	2176.47	5541.9	O/S	64222	1,970,000	J.W, H.M
3-28-12	2181.05	5541.9	O/S	64393	910,000	SB, JW
3-29-12	2191.48	5544.5	O/S	64441	1,080,000	CB, SB, JW
3-30-12	2197.21	5544.7	O/S	64545	840,000	SB, JW
3/31/12	2202.54	5544.7	O/S	64619	740,000	FOX, RP, AR

Signature

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Date

4-11-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLAS ADLE

~~WAMPBROOK~~ PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
4/1/12	2207.41	5544.7	O/S	64687	680,000	FOX, AR, RP
4-2-12	2212.43	5544.7	O/S	64757	700,000	SB, JW
4-3-12	2216.82	5544.7	O/S	64818	610,000	SB, CB
4-4-12	2222.72	5544.7	O/S	64900	320,000	SB, CB
4-5-12	2227.37	5544.7	O/S	64964	640,000	SB, CB
4/6/12	2231.79	5544.7	O/S	65026	620,000	FOX, PBT, RP
4-7-12	2236.30	5544.7	O/S	65090	640,000	SB, CB, PA
4-8-12	2240.90	5544.7	O/S	65152	620,000	SB, CB, PA
4-9-12	2245.03	5544.7	O/S	65318	460,000	SB, CB
4-10-12	2252.30	5544.7	O/S	65312	940,000	SB, CB
4-11-12	2255.80	5544.7	O/S	65361	490,000	SB, CB, JW
4-12-12	2261.17	5544.7	O/S	65435	740,000	SB, JW
4-13-12	2266.108	5544.7	O/S	65503	680,000	CB, JW
4-14-12	2270.7	5544.7	O/S	320000	320,000	MS, CL, DA, SS
4-15-12	2274.97	5544.7	O/S	91	550,000	MS, CL, DA, SS
4-16-12	2279.59	5544.7	O/S	155	640,000	SB, CB
4-17-12	2283.94	5544.7	O/S	215	600,000	SB, CB, JW
4-18-12	2288.97	5545.2	O/S	291	760,000	SB, CB, JW
4-19-12	2293.58	5545.3	O/S	357	660,000	SB, JW, CB
4-20-12	2297.17	5545.3	O/S	407	500,000	SB, JW, CB
4-21-12	2304.68	5547.9	O/S	551	144,000	MS, CB
4-22-12	2312.52	5548.3	O/S	667	116,000	MS, CB, WR
4-23-12	2327.93	5553.7	O/S	904	2970000	SB, CB
4-24-12	2337.80	5557.8	O/S	1165	201,000	LM, SB, CB
4-25-12	2342.78	5557.8	O/S	1233	680,000	SB, LM, CB
4-26-12	2347.95	5558.5	O/S	1315	820,000	SB, LM
4-27-12	2356.89	5562.2	O/S	1497	1,820,000	LM, JW
4-28-12	2360.31	5562.4	O/S	1547	1,547,000	SB, JW, PA
4-29-12	2365.98	5562.6	O/S	1636	1030,000	FOX
4-30-12	2372.56	5564.1	O/S	1744	1140,000	SB, CB

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Date

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City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name: WWTP STATIONS

PM ID Number: 854

Asset Numbers: 0001602, 0005152, 0005178, 0005455

Asset Description: WWTP PUMP STATIONS - HAMPTON, DOUGLASDALE, UPHAMBROOK, MCCLOY

Asset Location: 4 Different Locations Based on Location of Pump Station

PM Frequency: Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005210	0005213	0005214	Readings	Flow	NAME
5-1-12	2377.2	5564.1	015	1807	630,000	SB, CB
5-2-12	2381.79	5564.1	015	1872	650,000	CB, JW, LM
3	2385.61	5564.1	015	1925	530,000	SB, CB
4	2390.04	5564.1	015	1987	620,000	SB, CB
5	2394.11	5564.1	015	2043	960,000	CB, DR, CB
6	2394.70	5564.1	015	2121	780,000	CB, DR, CB
7	2404.27	5564.1	015	2185	640,000	SB, CB
8	2408.85	5564.1	015	2248	630,000	SB, CB
9	2413.24	5564.1	015	2309	610,000	SB, CB
10	2422.03	5564.1	015	2467	1580,000	SB, CB
11	2426.74	5566.6	015	2524	570,000	SB, CB
12	2430.98	5566.6	015	2583	590,000	SB, PA, CB
13	2434.74	5566.7	015	2634	510,000	SB, PA, CB
14	2454.48	5578.5	015	3091	457,000	SB, CB
15	2460.08	5578.9	015	3174	830,000	SB, CB
16	2465.53	5578.9	015	3249	650,000	SB, CB
17	2469.92	5578.9	015	3310	610,000	SB, CB
18	2475.38	5578.9	015	3388	750,000	SB, CB
19	2478.88	5578.9	015	3433	480,000	SB, CB, PA
20	2483.21	5578.9	015	3494	610,000	SB, PA, CB
21	2488.97	5578.9	015	3574	800,000	SB, CB
22	2492.76	5578.9	015	3624	520,000	SB, CB
23	2496.47	5578.9	015	3678	520,000	SB, CB
24	2506.05	5578.9	015	3750	720,000	SB, CB
25	2506.41	5578.9	015	3817	670,000	SB, LM, JW
26	2509.75	5578.9	015	3864	470,000	McRAE, FOX, SPALDING
27	2514.30	5578.9	015	3929	630,000	FOX, McRAE, STINE
28	2518.54	5578.9	015	3985	580,000	FOX, McRAE, STINE
29	2523.22	5578.9	015	4049	640,000	CB, SB
30	2527.80	5579.0	015	4116	670,000	SB, CB
31	2533.08	5579.6	015	4195	790,000	SB, CB

Signature

Date

May 31 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUN JULY AUG SEPT OCT NOV DEC

Asset PM Group Name:	WWTP STATIONS
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Asset Description:	WWTP PUMP STATIONS - HAMPTON, DOUGLASDALE, UPHAMBROOK, MCCLOY
Asset Location:	4 Different Locations Based on Location of Pump Station
PM Frequency:	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005210	0005213	0005214	Readings	Flow	NAME
6-1-12	2538.44	5579.0	015	4258	1230,000	SB, CB
2	2543.00	5579.4	015	4329	710,000	SB, CB, WR
3	2554.33	5584.1	015	4544	2150,000	SB, CB
4	2560.00	5584.9	015	4606	620,000	SB, CB
5	2568.19	5585.9	015	4676	700,000	SB, CB
6	2568.47	5585.9	015	4747	710,000	SB, CB
7	2568.47	015	015	4844	970,000	SB, CB
8	015	5599.6	166.8	4930	860,000	SB
9	015	5602.7	166.8	4992	620,000	MS, DA, MH
10	015	5606.2	166.8	5056	640,000	MS, MH, DA
11	015	5609.6	166.8	5119	630,000	SB, CB
12	2568.75	5609.8	149.6	5183	640,000	SB, CB
13	2569.25	5609.8	174.5	5278	950,000	SB, CB
14	2569.29	5609.8	179.6	5386	1080,000	SB, CB
15	2569.29	5609.8	186.7	5547	1610,000	SB, CB
16	2569.29	5609.9	189.9	5608	610,000	MS, RP, AR
17	2569.29	5609.9	193.2	5670	620,000	MS, RP, AR
18	2569.29	56	196.7	5737	670,000	SB, CB, JW
19	2569.29	5609.9	199.7	5795	580,000	LM, JW, CB
20	2569.29	5610.1	203.2	5868	730,000	SB, JW
21	2569.31	5610.1	205.8	5918	500,000	SB, JW
22	2570.02	5613.3	205.9	6051	680,000	LM, JW, CB
23	2570.02	5616.9	205.9	6115	650,000	FOX, P616, R00N64
24	2570.02	5620.6	205.9	6184	640,000	FOX, P616, R00N64
25	2570.02	5624.4	205.9	6236	690,000	SB, RP
26	2570.26	5627.0	205.9	6285	520,000	SB, LM, CB
27	2573.73	5627.1	205.9	6396	490,000	SB, JW
28	2580.44	5628.2	205.9	6462	1110,000	SB, JW
29	2585.10	5628.2	205.9	6524	600,000	SB, JW
30	2589.50	5628.3	205.9		640,000	SB, CB, SM

Signature

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Date

June 30 2012

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City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASDALE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	Readings	Flow	NAME
7-1-12	2595.47	5628.7	205.9	6612	860,000	SB, CB
7-2-12	2599.61	5628.8	205.9	6671	590,000	SW, LM
7-3-12	2600.58	5640.1	0.0	6899	228,000	SB, JW
7-4-12	2604.79	5640.2	0.0	6960	610,000	SB, CB
7-5-12	2610.17	5640.2	0.0	7035	750,000	LM, LM, SB, CB
7-6-12	2615.22	5640.2	0.0	7106	710,000	SB, JW
7-7-12	2620.34	5640.2	0.0	7179	730,000	SB, SS, KA
7-8-12	2625.49	5640.2	0.0	7251	720,000	SB, SS, KA
7-9-12	2631.01	5640.2	0.0	7328	770,000	SB, JW
7-10-12	2638.36	5645.6	0.0	7526	198,000	SB, JW
7-11-12	2644.98	5651.2	0.0	7991	465,000	SB, JW
7-12-12	2681.70	5657.0	0.0	8395	404,000	SB, JW
7-13-12	2693.31	5657.0	0/S	8473	480,000	SB, LM
7-14-12	2697.42	5657.0	0/S	8533	606,000	SB, CB
7-15-12	2703.28	5657.0	0/S	8612	790,000	SB, CB
7-16-12	2710.87	5657.4	0/S	8720	108,000	LM, SB, JW
7-17-12	2715.10	5657.4	0/S	8779	596,000	SB, JW
7-18-12	2721.03	5657.6	0/S	8865	869,000	SB, JW
7-19-12	2737.58	5659.0	0/S	9120	255,000	LM, JW
7-20-12	2743.08	5659.1	0/S	9205	859,000	SB, JW, LM
21	2748.29	5659.1	0/S	9268	630,000	FOX, DA, SS
22	2755.73	5659.5	0/S	9368	1,000,000	FOX, DA
23	2761.54	5659.5	0/S	9444	760,000	SB, LM, JW
24	2767.43	0/S	0/S	9521	830,000	SB, LM, JW
25	2774.15	0/S	0/S	9616	890,000	SB, LM, JW, CB
26	2778.86	0/S	0/S	9677	610,000	SW, SB, LM, CB
27	2780.01	5659.7	0/S	9750	730,000	SB, CB
28	2780.61	5660.6	0/S	9824	740,000	CB, SM, RP
29	2780.61	5670.6	0/S	9896	720,000	OB, SM, RP
30	2780.61	5674.9	0/S	9973	770,000	SB, JW
31	2785.55	5674.9	0/S	10040	670,000	SW, CB

Signature

2785.55

Date

August 6 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON, DOUGLASDALE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
	0005210	0005213	0005214	Readings	Flow	NAME
8-1-12	2803.80	5683.9	0/S	10422	382,000	SB, CB
8-2-12	2812.05	5686.6	0/S	10584	102,000	SB, CB
8-3-12	2831.12	5689.5	0/S	10885	301,000	SB, JW
8/4/12	2848.61	5690.9	0/S	11143	258,000	MS, RP, PA
8/5/12	2854.31	5690.9	0/S	11219	760,000	MS, PA, RP
8-6-12	2866.10	5690.9	0/S	11309	900,000	SB, CB, LM, JW
8-7-12	2866.74	5690.9	0/S	11384	750,000	LM, JW, SB, CB
8-8-12	2871.94	5691.6	0/S	11469	850,000	SB, JW, LM
8-9-12	2879.39	5692.2	0/S	11578	1090,000	SB, JW
8-10-12	2884.02	5692.2	0/S	11650	720,000	SB, JW
8-11-12	2892.05	5692.8	0/S	11757	1,070,000	MS, CB, WR
8-12-12	2904.25	5692.8	0/S	11925	1,680,000	MS, CB, WR
8-13-12	2909.95	5692.8	0/S	12002	770,000	SB, JW
8-14-12	2914.39	5692.8	0/S	12063	610,000	LM, JW, SB, CB
8-15-12	2919.70	5692.8	0/S	12134	710,000	LM, JW
8-16-12	2925.04	5692.8	0/S	12207	730,000	LM, CB, RP
8-17-12	2930.30	5692.8	0/S	12278	710,000	SB, JW
8-18-12	2935.08	5692.8	0/S	12342	640,000	SB, PA, RP
8-19-12	2940.10	5692.8	0/S	12410	680,000	SB, PA, RP
8-20-12	2945.52	5692.8	0/S	12482	720,000	SB, LM
8-21-12	2951.73	5693.1	0/S	12572	900,000	SB, LM
8-22-12	2956.30	5693.1	0/S	12634	620,000	LM
8-23-12	2962.15	5693.1	0/S	12704	720,000	SB, JW
8-24-12	2962.05	5695.9	0/S	12768	1,250,000	SB, JW, LM
8-25-12	2968.46	5696.4	0/S	12853	850,000	SB, BB, JW
8-26-12	2977.89	5698.6	0/S	13005	1,520,000	SB, RP, JW
8-27-12	2983.03	5698.1	0/S	13076	710,000	SB, JW
8-28-12	2986.56	5698.1	0/S	13123	470,000	SB, JW
8-29-12	3004.45	5703.5	0/S	13447	3240,000	SB, RP
8-30-12	3010.26	5703.5	0/S	13525	780,000	SB, JW
8-31-12	3013.74	5703.5	0/S	13571	460,000	SB, JW

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Date

8-31-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER # P222 059

YEAR >

2013

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description:	WWTP PUMP STATIONS HAMPTON, DOUGLASDALE, UPHAMBROOK, MCCLOY
Asset Location:	4 Different Locations Based on Location of Pump Station
PM Frequency:	Monthly

DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	Readings	Flow	NAME
9-1-12	3017.47	5703.5	0/S	13620	490,000	CB AR Mt
9-2-12	3022.02	5703.5	0/S	13681	610,000	CB AR Mt
9-3-12	3027.77	5704.3	0/S	13769	880,000	CB AR Mt
9-4-12	3038.87	5707.7	0/S	13972	2030,000	SB, JW
9-5-12	3043.84	5707.7	0/S	14039	1670,000	SB, JW
9-6-12	3047.56	5707.8	0/S	14091	520,000	SB, RP
9-7-12	3054.46	5708.8	0/S	14200	1090,000	SB, RP
9-8-12	3059.51	5708.8	0/S	14240	1400,000	CB Sm RP
9-9-12	3062.71	5708.8	0/S	14316	760,000	CB Sm RP
9-10-12	3067.75	5709.4	0/S	14389	730,000	SB, JW
9-11-12	3087.76	5715.8	0/S	14756	3670,000	SB, JW
9-12-12	3094.37	5715.8	0/S	14844	880,000	SB, JW
9-13-12	3100.47	5715.8	0/S	14924	800,000	SB, JW
9-14-12	3106.94	5715.8	0/S	15010	860,000	SB, JW
9/15/12	3113.02	5715.8	0/S	15090	800,000	WATER, RODNEY Fox
9/16/12	3119.45	5715.8	0/S	15176	860,000	WATER, RODNEY Fox
9-17-12	3126.16	5715.8	0/S	15264	280,000	SB
9-18-12	313.87	5715.8	0/S	15354	80,000	LM SB CR
9-19-12	3142.53	5718.9	0/S	15513	890,000	LM JW SB
9-20-12	3146.36	5718.9	0/S	15564	510,000	T.W.S.B
9-21-12	3159.05	5721.4	0/S	15787	2239,000	SB, JW
9-22-12	3180.89	5729.1	0/S	16195	4080,000	SB, CB
9-23-12	3187.27	5729.1	0/S	16280	850,000	SB, CB
9-24-12	3194.53	5729.1	0/S	16376	960,000	SB, JW, CB
9-25-12	3200.86	5729.1	0/S	16459	830,000	SB, JW
9-26-12	3206.68	5729.1	0/S	16536	770,000	SB, JW
9-27-12	3212.50	5729.1	0/S	16614	780,000	SB, JW
9-28-12	3218.18	5729.1	0/S	16696	760,000	SB
9-29-12	3224.60	5729.3	0/S	16779	870,000	WPS, Aquatic, Spinning
9-30-12	3230.47	5729.3	0/S	16858	790,000	WPS, Aquatic, Spinning

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Date

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City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER # P223119

YEAR >

2013

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name:	WWTP STATIONS
PM ID Number:	854
Asset Numbers:	0001602, 0005152, 0005178, 0005455
Asset Description:	WWTP PUMP STATIONS - HAMPTON, DOUGLASDALE, UPHAMBROOK, MCCLOY
Asset Location:	4 Different Locations Based on Location of Pump Station
PM Frequency:	Monthly

DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	Readings	Flow	NAME
10-1-12	3236.41	5729.3	O/S	16938	800,000	SB, JW
10-2	3243.01	5729.5	O/S	17030	920,000	SB, JW
10-3	3250.47	5729.5	O/S	17131	101,000	LM, JW, SB
10-4	3255.82	5729.5	O/S	17203	720,000	SB, JW, LM
10-5	3261.22	5729.5	O/S	17274	71,000	LM, JW, SB
10-6	3267.84	5729.5	O/S	17362	880,000	MS, CB, KA
10-7	3275.76	5730.3	O/S	17481	1190000	MS, CB, KA
10-8	3280.89	5730.8	O/S	17557	1760000	JV, SB, CB
10-9	3284.36	5730.8	O/S	17604	470,000	SB, JW
10-10	3288.00	5730.8	O/S	17652	48,000	LM, JW
10-11	3291.11	5730.8	O/S	17695	430,000	SB, CB
10-12	3305.42	5734.6	O/S	17946	2,510,000	SB, LM, CB
10-13	3310.33	5734.6	O/S	18012	1660000	SB, SM, WH
10-14	3315.89	5734.6	O/S	18087	750,000	SB, SM
10-15	3321.79	5734.6	O/S	18166	790,000	SB, JW
10-16	3327.08	5734.6	O/S	18237	710,000	SB, JW, LM, CB
10-17	3332.67	5734.6	O/S	18312	750,000	SB, LM, JW, CB
10-18	3338.04	5734.6	O/S	18383	710,000	SB, JW, LM
10-19	3344.34	5735.2	O/S	18474	910,000	SB, JW, LM, CB
10-20	3349.17	5735.2	O/S	18512	380,000	SB, RP, WR
10-21	3350.31	5735.2	O/S	18554	420,000	SB, RP, WR
10-22	3354.18	5735.2	O/S	18606	520,000	SB, LM, CB
10-23	3372.63	5740.9	O/S	18943	3270000	LM, ER
10-24	3378.09	5740.9	O/S	19025	820,000	SB, LM, JW, CB
10-25	3389.77	5740.9	O/S	19107	820,000	SB, LM, JW, CB
10-26	3390.48	5740.9	O/S	19184	770,000	SB, LM, JW, CB
10-27	3395.77	5740.9	O/S	19255	710,000	SB, KA, RP
10-28	3400.96	5740.9	O/S	19324	690,000	SB, KA, RP
10-29	3407.05	5740.9	O/S	19406	820,000	SB, LM, JW
10-30	3418.96	5760.8	O/S	19943	5390,000	SB, LM, JW
10-31	3418.96	5766.5	O/S	20042	990,000	SB, JW, LM

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Date

Nov 5th 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

P223263

YEAR >

2013

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASDALE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	Readings	Flow	NAME
11-1	3418.96	5769.4	015	20092	500,000	SB, JW, LM
11-2	3419.40	5776.3	015	20234	1420,000	SB, JW, LM
11-3	3420.64	5774.8	208.3	20289	550,000	CB, SB, DA
11-4	3420.64	5750.3	208.3	20349	600,000	CB, SB, DA
11-5	3420.64	5784.1	208.3	20415	660,000	SB, JW, LM
11-6	3420.64	5786.9	208.3	20463	480,000	SB, JW, LM, CB
11-7	3420.64	5789.9	208.3	20510	530,000	SB, JW, LM, CB
11-8	3420.81	5793.1	208.4	20571	550,000	SB, LM, CB
11-9	3420.81	5795.8	208.8	20619	580,000	CB, SB, JW, LM
10	3420.81	5795.8	211.1	20659	400,000	FOX, AR, SPALDING
11	3420.81	5795.8	213.8	20705	460,000	FOX, AR, SPALDING
12	3420.81	5795.8	216.5	20751	460,000	SB, JW, LM, CB
13	3420.81	5795.8	220.4	20816	650,000	LM, JW, CB, SB
14	3420.81	5795.8	222.9	20859	430,000	SB, JW, LM, CB
15	3420.81	5795.8	225.3	20899	400,000	SB, CB
16	3420.81	5795.8	227.9	20943	440,000	SB, CB
17	3420.81	5795.8	230.5	20987	440,000	SB, SM, CB
18	3420.81	5795.8	233.2	21032	450,000	SB, SM, CB
19	3420.81	5795.8	236.2	21083	510,000	SB, CB
20	3420.81	5795.9	239.1	21137	540,000	SB, JW, LM, CB
21	3420.81	5795.9	241.7	21180	430,000	SB, JW, LM
22	3420.81	5795.9	244.2	21223	430,000	SB, SM, CB
23	3420.81	5795.9	246.9	21267	440,000	SB, SM, CB
11/24/12	3420.81	5795.9	249.7	21314	470,000	ms
11/25/12	3420.81	5795.9	252.3	21359	450,000	ms
11-26	3420.81	5795.9	255.1	21405	460,000	SB, LM, CB
11-27	3420.81	5795.9	257.9	21452	470,000	LM, SB, CB
11-28	3420.81	5798.7	257.9	21494	440,000	SB, CB
11/29/12	3420.81	5801.3	258.1	21540	440,000	ms, LM, SB, CB
11-30	3420.81	5802.6	259.5	21585	450,000	SB, JW, LM

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Date

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City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

1223495

YEAR >

2013

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV **DEC**

Asset PM Group Name:	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description:	WWTP PUMP STATIONS - HAMPTON, DOUGLASDALE, UPHAMSBROOK, MCCLOY
Asset Location:	4 Different Locations Based on Location of Pump Station
PM Frequency:	Monthly

DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	Readings	Flow	NAME
12-01-12	34208.1	5802.6	262.1	21630	450,000	MS, RP, AP
12-02-12	34208.2	5802.7	264.4	21669	370,000	MS, RP, AP
12-3	34208.1	5802.7	267.4	21719	500,000	SB, CB
12-4	34208.1	5802.7	270.1	21764	450,000	SB, CB
12-5	34208.1	5802.7	272.9	21810	460,000	SB, LM, MS
12-6	34208.1	5802.7	275.3	21851	410,000	SB, LM, MS
12/7/12	34208.8	5802.7	278.0	21895	440,000	LM, MS
12-8	34208.1	5802.7	281.3	21952	570,000	SB, DA, RP
12-9	34208.1	5802.7	284.0	21997	450,000	SB, DA, RP
12-10	34208.1	5802.7	287.2	22051	540,000	SB, LM, MS
12-11	34208.1	5802.7	289.9	22095	440,000	SB, RP
12-12	34208.1	5802.7	292.8	22144	490,000	LM MS SB
12/13/12	34208.1	5802.7	295.5	22189	450,000	MS, LM, SB
12-14	34208.1	5802.7	298.4	22237	480,000	SB, LM, MS
12-15-12	34208.1	5802.7	301.4	22287	500,000	CB SB, PA
12-16-12	34208.1	5802.4	305.6	22359	720,000	CB SB PA
12-17-12	34209.0	5802.9	308.4	22407	480,000	LM MS SB
12-18-12	34209.0	5802.9	311.1	22452	450,000	SB, LM, MS
12-18-12	34209.0	5802.9	314.0	22500	480,000	SB, LM, MS
12/20/12	34209.0	5803.0	318.1	22543	430,000	LM, MS, SB
12-21-12	34209.0	5803.4	325.4	22681	1380,000	SB, LM, MS
12-22-12	34209.0	5803.4	327.9	22722	410,000	SB, SM, SS
12-23-12	34209.0	5803.4	330.2	22761	390,000	SB, WR, SS
12-24-12	34209.0	5803.4	332.6	22801	400,000	SB, WR, SS
12-25-12	34209.0	5803.4	335.9	22855	540,000	SB
12-26-12	34209.0	5803.4	339.0	22908	530,000	SB, MS, MS
12-27-12	34209.0	5803.9	349.0	23099	1910,000	SB, LM
12-28-12	34209.0	5803.9	351.8	23140	4700,000	SB, LM
12-29-12	34209.0	5803.9	368.8	23501	3,550,000	CB SM
12-30-12	34209.0	5803.9	391.7	23994	4,930,000	CB SM
12-31-12	34209.0	5803.9	396.0	24067	730,000	CB SM

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Date

12-31-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

Hampton

DOUGLASDALE PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

P221685

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS (HAMPTON) DOUGLASDALE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005210	0005213	0005214	Readings	Flow	NAME
1/1/12	13014.9	13915.4		140094768	22,194	SB, PA, MS
1/2/12	13014.6	13915.7		140114604	19,836	PA, SB, MS
1/3/12	13015.0	13916.1		140142009	27,405	CB SB JW
1/4/12	13015.2	13916.5		140162354	25,345	CB SB JW
1/5/12	13015.5	13916.9		140187902	25,548	CB SB JW
1/6/12	13015.8	13917.2		140208783	20,881	CB JW SB
1-7-12	13016.0	13917.3		140222376	13,573	SB, SM, SS
1-8-12	13016.2	13917.7		140243256	30,878	SB, SM, SS
1-9-12	13016.5	13918.1		140267867	24,612	JW SB
1-10-12	13016.8	13918.5		140284076	26,207	SB, JW, CB
1-11-12	13017.1	13918.5		140312711	18,635	SB, JW, CB
1-12-12	13019.7	13920.3		140376536	65,825	CB JW SB
1-13-12	13027.3	13921.1		140403917	27,381	CB JW SB
1-14-12	13032.0	13921.5		140418192	14,275	SB, MS, WR
1-15-12	13038.9	13922.1		140438866	20,624	MS, SB, WR
1-16-12	13042.5	13922.6		140458283	40,091	SB, MS, WR
1-17-12	13043.0	13922.9		140481189	22,901	CB SB JW
1-18-12	13043.2	13923.2		140500296	19,112	CB CB SB
1-19-12	13043.3	13923.2		140606114	4,818	SB, CB
1-20-12	13043.3	13923.3		140505663	649	SB, RP
1-21-12	13043.3	13923.3		140505663	0	SB, MS, DA
1-22-12	13043.3	13923.3		140567205	1,572	SB, MS, DA
1-23-12	13043.4	13923.3		140572013	4,808	CB JW
1-24-12	13043.7	13923.6		140531979	19,966	SB, CB, JW
1-25-12	13044.0	13923.9		140551726	20,747	CB SB JW
1-26-12	13044.2	13924.2		140570278	18,549	JW SB CB
1-27-12	13044.5	13924.5		140595135	24,860	CB JW
1-28-12	13044.7	13924.7		140608335	11,815	SB, MS, DA
1-29-12	13045.0	13925.0		140629433	21,078	SB, MS, DA
1-30-12	13045.3	13925.4		140655208	25,775	CB JW SB
1-31-12	13045.4	13925.8		140680429	25,221	JW CB SB

Signature

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Date

Feb 1 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

**HAMPTON PUMP STATION
MONTHLY PUMP READINGS**

WORK ORDER #

P 221 870

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name WWTP STATIONS

PM ID Number 854

Asset Numbers 0001602, 0005152, 0005178, 0005455

Asset Description WWTP PUMP STATIONS HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY

Asset Location 4 Different Locations Based on Location of Pump Station

PM Frequency Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
2-1-12	13045.6	13926.0		140698806	18,377	CB SWB
2-2-12	13046.7	13927.0		140797413	65,607	CB JWGRS
2-3-12	13046.8	13927.2		140779132	19,719	SB JW
2-4-12	13047.1	13927.4		140790157	11,025	FOX, PETE, NICKS
2-5-12	13047.1	13927.7		140810175	20,018	FOX, PETE, NICKS
2-6-12	13047.7	13928.2		140841847	31,672	CB SB
2-7-12	13048.0	13928.4		140858808	16,961	CB SB JW
2-8-12	13048.4	13928.9		140887118	30,310	CB SB JW
2-9-12	13048.8	13929.5		140928386	39,268	CB SB JW
2-10-12	13049.0	13929.8		140946908	19,522	CB SB JW
2-11-12	13049.2	13930.1		140962308	15,400	CB CB AR
2-12-12	13049.5	13930.3		140981081	18,773	CB CB AR
2-13-12	13049.8	13930.7		141007352	26,271	CB SB
2-14-12	13049.9	13930.9		141019787	12,435	CB SB JW
2-15-12	13050.3	13931.2		141043638	23,851	CB SB JW
2-16-12	13050.5	13931.4		141060355	18,417	SB JW
2-17-12	13050.8	13931.9		141087183	26,935	SB JW
2-18-12	13051.2	13932.3		141107840	11,032	MS, RP, WR
2-19-12	13051.2	13932.3		141117540	19,732	MS, RP, WR
2-20-12	13051.8	13933.0		141162750	55,160	MS, RP, WR
2-21-12	13052.4	13933.6		141206773	49,013	CB SB
2-22-12	13052.6	13933.9		141224763	17,970	CB JW
2-23-12	13052.9	13934.2		141249607	24,844	SB JW
2-24-12	13053.1	13934.5		141268069	18,462	CB SB JW
2-25-12	13053.5	13934.8		141289843	21,794	MS, CB, AR
2-26-12				141309576	19,713	MS CB AR
2-27-12	13054.1	13935.5		141334270	24,944	CB JW SB
2-28-12	13054.3	13935.7		141352308	18,035	CB SB JW
2-29-12	13054.6	13936.4		141374112	22,104	CB SB JW

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Date

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City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

HAMPTON PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

P 222143

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
3-1-12	13055.6	13937.4		141460029	85617	CB SB JW
3-2-12	13055.9	13937.7		141479677	91648	CB SB JW
3-3-12	13056.2	13938.1		141506086	26,409	SB DA SS
3-4-12	13056.3	13938.2		141512014	6,528	SB SS PA
3-5-12	13056.4	13938.3		141521381	2,767	CB SB JW
3-6-12	13056.5	13938.4		141530159	8,776	CB SB JW
3-7-12	13056.9	13938.8		14155474	21,315	CB SB JW
3-8-12	13057.1	13939.1		141517218	19,744	SB JW
3-9-12	13057.9	13939.6		141621434	42,216	SB JW CB
3-10-12	13058.0	13939.8		141634531	13,097	CB CB PA
3-11-12	13058.3	13940.1		141654333	19,802	CB CB PA
3-12-12	13058.7	13940.5		141682936	28,603	CB SB JW
3-13-12	13059.0	13940.9		141707051	24,115	CB SB JW
3-14-12	13059.2	13941.2		141726636	19,585	CB SB JW
3-15-12	13059.4	13941.5		141746302	19,666	DW CB SB
3-16-12	13059.6	13941.8		141765790	19,488	SB JW
3-17-12	13059.9	13942.0		141785261	19,471	SB SS SM
3-18-12	13060.1	13942.3		141800422	15,161	SB SS SM
3-19-12	13060.4	13942.7		141825930	25,508	DW SB
3-20-12	13060.7	13943.0		141847315	21,385	SB JW
3-21-12	13061.0	13944.0		141893666	46,351	SB JW
3-22-12	13061.2	13944.3		141912875	19,209	DW HM
3-23-12	13061.5	13944.6		141934230	21,355	JW HM
3-24-12	13061.7	13944.8		141949017	14,787	CB WR BP
3-25-12	13063.3	13946.5		142062076	113,059	CB WR BP
3-26-12	13063.7	13947.0		142092156	30,080	CB SB
3-27-12	13064.0	13947.2		142111525	19,369	JW HM
3-28-12	13064.2	13947.4		142128828	17,303	SB JW
3-29-12	13064.6	13948.0		14216478	35,941	CB SB
3-30-12	13064.9	13948.4		142184949	20,180	SB JW
3-31-12	13065.1	13948.5		142195660	10,711	FOR RP, AR

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Date

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City of Richmond

Department of Public Utilities - Wastewater Treatment Plant

NINE MINIMUM CONTROL'S REPORT

HAMPTON PUMP STATION MONTHLY PUMP READINGS

WORK ORDER #		YEAR >	2012
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CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
4/1/12	130654	139489		142217215	21555	FOX RP, AR
4-2-12	13065.7	139493		142247020	29505	SB, JW
4-3-12	13066.0	13949.5		142264131	11111	SB, CB
4-4-12	13066.3	13949.7		142283269	19138	SB, CB
4-5-12	13066.5	13950.0		142303439	19170	SB, CB
4/6/12	13066.7	13950.2		142313111	10672	FOX PETE, RP
4-7-12	13066.9	13950.5		142334429	21318	SB, CB, PA
4-8-12	13067.2	13950.8		142353604	19,175	SB, CB, PA
4-9-12	13067.5	13951.1		142381476	27873	SB, CB
4-10-12	13067.8	13951.5		142405078	23402	SB, CB
4-11-12	13068.1	13951.7		142424442	19344	SB, CB, JW
4-12-12	13068.3	13952.0		142443860	19413	SB, CB
4-13-12	13068.6	13952.3		142461109	17249	CB, JW
4-14-12	13068.7	13952.5		142473952	12,844	CL MS, DA, SS
4-15-12	13069.0	13952.8		142495272	21,420	MS, CL, DA, SS
4-16-12	13069.3	13953.2		142522731	27,649	SB, CB
4-17-12	13069.6	13953.5		142544109	21888	SB, CB, JW
4-18-12	13070.0	13954.0		142573086	28977	SB, CB, JW
4-19-12	13070.3	13954.3		142591053	23,966	SB, CB, JW
4-20-12	13070.5	13954.4		142616238	19,186	SB, CB, JW
4-21-12	13070.7	13954.8		142631086	14,848	MS, CB
4-22-12	13071.4	13955.4		142674763	43,677	MS, CB, WR
4-23-12	13073.4	13957.8		142832945	158,182	SB, CB
4-24-12	13073.7	13958.1		142854302	179,539	SB, CB, LM
4-25-12	13073.9	13958.4		142873583	19,281	SB, CB, LM
4-26-12	13074.7	13959.3		142932448	58,865	SB, LM
4-27-12	13075.1	13959.6		142955859	23221	LM, JW
4-28-12	13075.3	13959.9		142972839	16,950	FOX, SG, SM, SH
4-29-12	13075.7	13960.3		143003488	30644	FOX, SG, SM, MH
4-30-12	13076.1	13960.6		143020838	27355	SB, CB

Signature

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City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

Hampton St. **DOUGLASDALE PUMP STATION**
MONTHLY PUMP READINGS

WORK ORDER #		YEAR >	2012
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CIRCLE THE MONTH JAN FEB MAR APR <u>MAY</u> JUNE JULY AUG SEPT OCT NOV DEC											
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Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASDALE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3	Readings	Flow	NAME
DATE	0005210	0005213	0005214			
5-1-12	13076.3	13960.9	N/A	143045594	14,756	SB, CB
2	13076.6	13961.3	NA	143068716	23,152	CD SW LM
3	13076.8	13961.5	—	143085538	16,792	SB, CB
4	13077.0	13961.7	—	143100248	19,710	SB, CB
5	13077.2	13961.9	—	143119108	18,860	CB, DR, CB
6	13077.5	13962.3	—	143142624	23,521	DR, DR, CB
7	13077.8	13962.7	—	143167915	48,807	SB, CB
8	13078.1	13963.0	—	143189028	21,117	SB, CB
9	13078.3	13963.2	—	143203701	14,679	SB, CB
10	13078.6	13963.5	—	143227315	23,608	SB, CB
11	13079.0	13963.9	—	143251251	23,944	SB, CB
12	13079.1	13964.2	—	143268262	16,823	SB, DR, CB
13	13079.4	13964.4	—	143284897	16,835	SB, DR, CB
14	13079.7	13964.7	—	143310369	25,450	SB, CB, LM
15	13080.0	13965.2	—	143337743	27,374	SB, CB
16	13080.2	13965.5	—	143354555	16,812	SB, CB
17	13080.5	13965.9	—	143381769	27,214	SB, CB
18	13080.8	13966.2	—	143402692	20,923	SB, CB
19	13081.0	13966.4	—	14341368	14,676	SB, CB, LM
20	13081.3	13966.7	—	143436414	19,646	SB, DR, CB
21	13081.6	13967.0	—	143461648	25,234	SB, CB
22	13081.7	13967.2	—	143476268	14,626	SB, CB
23	13082.0	13967.5	—	143495099	18,831	SB, CB
24	13082.3	13967.8	—	143518114	25,015	SB, CB
25	13082.5	13968.2	—	143537022	18,919	LM, LM
26	13082.6	13968.4	N/A	143551640	14,607	FOX, McRAE, SPANING
27	13082.8	13968.7	N/A	143570291	18,651	FOX, McRAE, STONE
28	13083.1	13968.9	N/A	143589081	18,938	FOX, McRAE, STONE
29	13083.5	13969.4	N/A	143616144	27,065	SB, CB
30	13083.6	13969.6	—	143628721	12,577	SB, CB
31	13083.9	13969.9	—	143651657	22,936	SB, CB

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Date June 31 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

HAMPTON PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
	0005133	0005134	N/A	Readings	Flow	NAME
6-1-12	13084.1	13970.2	-	143670506	18,855	SB, CB
2	13084.6	13970.6	-	143700201	29,695	SB, CB, W2
3	13084.8	13970.8	-	143718869	18,668	SB, CB
4	13085.1	13971.1	-	143737222	18,853	SB, CB
5	13085.3	13971.4	-	143756741	19,019	SB, CB
6	13085.6	13971.8	-	143785279	28,538	SB, CB
7	13085.9	13972.1	-	143802544	17,265	SB, CB
8	13086.2	13972.4	-	143824452	21,708	SB
9	13086.4	13972.6	-	143841326	17,074	MS, MH, DA
10	13086.6	13972.9	-	143858535	17,209	MS, DA, MH
11	13086.8	13973.2	-	143879965	21,428	SB, CB
12	13087.1	13973.5	-	143897063	17,100	SB, CB
13	13087.6	13974.2	-	143940919	43,852	SB, CB
14	13087.8	13974.4	-	143955802	14,883	SB, CB
15	13088.0	13974.6	-	143970597	14,795	SB, CB
16	13088.3	13974.9	-	143990130	19,533	MS, RP, AR
17	13088.6	13975.2	-	144011488	21,358	MS, RP, AR
18	13088.9	13975.6	-	144036984	25,996	SB, JW
19	13089.1	13975.9	-	144053920	16,936	SB, JW
20	13089.4	13976.2	-	144075676	21,156	SB, JW
21	13089.6	13976.4	-	144091961	16,885	SB, JW
22	13089.9	13976.6	-	144106822	14,861	LM, JW, CB
23	13090.1	13976.8	-	144123725	16,903	FOX, PATE, ROOMER
24	13090.3	13977.1	-	144140724	16,999	FOX, PATE, ROOMER
25	13090.7	13977.5	-	144153235	29,001	SA, RP
26	13090.9	13977.7	-	144182921	12,596	SB, LM, CB
27	13091.2	13978.1	-	144208235	25,314	SB, JW
28	13091.6	13978.4	-	144233587	25,154	SB, JW
29	13091.9	13978.8	-	144256604	23,215	SB, JW
30	13092.1	13979.0	-	144271421	14,817	SB, CB, SM

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Date

June 30 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

HAMPTON PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

122222

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
7-1-12	13092.4	13979.2	-	144288901	17,480	SB, CB, SM
7-2-12	13092.6	13979.4	-	144301313	17412	L.M. L.M
7-3-12	13092.8	13979.6	-	144317960	16,647	SB, JW
7-4-12	13093.0	13979.9	-	144334020	16,660	SB, CB
7-5-12	13093.3	13986.0	-	144357925	23,305	SB, JW
7-6-12	13093.8	13986.4	-	144372655	17,128	L.M. JW CB
7-7-12	13093.7	13987.0	-	144387398	14,745	SB, SS, KA
7-8-12	13093.9	13987.3	-	144406534	19,136	SB, SS, KA
7-9-12	13094.3	13987.7	-	144430298	23,714	SB, JW
7-10-12	13095.4	13988.4	-	144493320	63053	L.M. JW SB
7-11-12	13096.7	13988.7	-	144518652	25,351	SB, JW
7-12-12	13096.0	13989.1	-	144540115	21,463	SB, JW
7-13-12	13096.3	13989.3	-	144559309	19,194	SB, L.M
7-14-12	13096.4	13989.6	-	144574210	14,901	SB, CB
7-15-12	13097.0	13990.0	-	144610466	36,256	SB, CB
7-16-12	13097.8	13990.8	-	144670663	60,137	SB, JW
7-17-12	13098.1	13991.2	-	144694118	23,515	SB, JW
7-18-12	13098.4	13991.5	-	144715814	21,696	SB, JW
7-19-12	13099.0	13992.4	-	144764219	48,465	L.M. JW
7-20-12	13099.3	13993.7	-	144785731	21,452	SB, JW
21	13099.5	13992.9	N/A	144800640	14,909	Fox DA SS
22	13099.9	13993.3	N/A	144829277	28,637	Fox DA
23	13100.4	13993.8	-	144864834	35,557	SB, JW, L.M
24	13100.6	13994.0	-	144882012	17,178	SB, JW, L.M
25	13100.9	13994.3	-	144901880	19,868	SB, JW, L.M
26	13101.1	13994.6	-	144921248	19,363	L.M. JW SR
27	13101.4	13994.9	-	144942578	21,335	SB, CB
28	13101.6	13995.1	-	144957645	15,067	OB SM RP
29	13101.9	13995.4	-	144979127	21,482	OB SM RP
30	13102.3	13995.8	-	145004927	25,800	L.M. JW CB
31	13102.6	13996.1	-	145024301	19,374	L.M. CB

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Date

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City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

HAMPTON PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

P222929

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
8-1-12	13103.6	13996.9	-	145092849	68,548	SB, JB
8-2-12	13104.0	13997.3	-	145118493	25,644	SB, JB
8-3-12	13104.9	13998.6	-	14512290	73,197	SB, JW, LM
8-4-12	13105.2	13998.8	-	145207310	15,020	PA, RP, MS
8-5-12	13105.4	13999.1	-	145226737	19,427	MS, PA, RP
8-6-12	13105.7	13999.4	-	146250487	23,750	SB, CB, LM, JW
8-7-12	13105.9	13999.7	-	145267787	17,300	SB, JW
8-8-12	13106.2	13999.9	-	145285010	17,223	LM, LM
8-9-12	13106.5	14000.3	-	145311977	26,967	SB, JW
8-10-12	13106.7	14000.6	-	145331070	19,093	SB, JW
8-11-12	13107.2	14001.0	-	145362082	31,012	MS, CB, WR
8-12-12	13107.6	14001.3	-	145385641	23,577	MS, CB, WR
8-13-12	13107.8	14001.3	-	145409448	23,747	SB, LM, JW
8-14-12	13108.1	14001.9	-	145438541	19,133	SB, JW
8-15-12	13108.4	14002.2	-	145447678	19,137	LM, JW
8-16-12	13108.6	14002.4	-	145464783	17,115	LM, CB, RP
8-17-12	13108.9	14002.8	-	145486159	21,266	SB, JW, LM
8-18-12	13109.1	14002.9	-	145501136	15,977	SB, PA, RP
8-19-12	13109.3	14003.2	-	145516181	15,045	SB, RP, PA
8-20-12	13109.6	14003.5	-	145539664	23,483	SB, LM
8-21-12	13109.8	14003.8	-	145558881	19,217	SB, LM
8-22-12	13110.2	14004.1	-	145578045	19,161	LM
8-23-12	13110.4	14004.3	-	145599169	21,127	SB, JW, LM
8-24-12	13110.7	14004.7	-	145620599	21,230	SB, JW, LM
8-25-12	13111.2	14005.2	-	145657315	26,914	SB, DA, JB
8-26-12	13112.6	14007.2	-	145746213	107,898	SB, DA, JB
8-27-12	13112.9	14007.8	-	145795923	30,710	SB, JW
8-28-12	13113.2	14008.1	-	145813195	17,272	SB, JW
8-29-12	13113.4	14008.3	-	145830500	17,305	SB, RP
8-30-12	13113.7	14008.7	-	145856235	25,735	SB, JW
8-31-12	13114.0	14008.9	-	145873562	17,317	SB, JW

Signature

B. Bentley

Date

8-31-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

HAMPTON PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEP OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
9-1-12	13114.2	14009.2	N/A	145891033	17471	OB AM MH
9-2-12	13114.6	14009.5	N/A	145915216	24185	OB AM MH
9-3-12	13114.7	14009.8	N/A	145930448	15730	OB AM MH
9-4-12	13114.7	14009.9	-	145935350	9502	SB, JW
9-5-12	13115.0	14010.1	-	145953140	17790	SB, JW
9-6-12	13115.7	14011.2	-	146015286	62042	SB, RP, LM
9-7-12	13116.0	14011.4	-	146032897	17515	SB, RP
9-8-12	13116.2	14011.6	-	146048205	16308	OB SM RP
9-9-12	13116.6	14012.2	-	14607936	31731	OB SM RP
9-10-12	13116.9	14012.5	-	146106233	26297	SB, JW
9-11-12	13117.1	14012.8	-	146125718	19485	SB, JW
9-12-12	13117.4	14013.1	-	146145275	19557	SB, JW
9-13-12	13117.6	14013.3	-	146162703	17428	SB, JW
9-14-12	13117.8	14013.4	-	146180117	17414	SB, JW
9-15-12	13118.0	14013.7	-	146190957	18840	WINE, ROONEY, FOX
9-16-12	13118.2	14014.0	-	146210572	19615	WINE, ROONEY, FOX
9-17	13118.6	14014.4	-	146236734	26162	SB
9-18	13118.6	14014.7	-	146254030	17295	LM SB, RB
9-19	13120.4	14016.4	-	146367131	113102	LM, JW, SB
9-20	13120.7	14017.4	-	146391588	24457	SB, JW
9-21	13120.9	14017.7	-	146416187	19599	SB, JW, LM
9-22	13121.1	14017.9	-	146424274	13087	SB, CB
9-23	13121.4	14018.2	-	146446276	28596	SB, CB
9-24	13121.7	14018.6	-	146472998	26728	SB, JW, CB
9-25	13122.2	14019.0	-	146504628	31630	SB, JW
9-26	13122.4	14019.2	-	146520501	15873	SB, JW
9-27-12	13122.6	14019.5	-	146540468	19967	LM, JW, CB
9-28-12	13122.9	14019.8	-	146560090	19622	LM
9-29-12	13123.3	14020.1	N/A	146583935	23845	WINE, ROONEY, FOX
9-30-12	13123.6	14020.5	N/A	146608210	24275	WINE, DA, SS

Signature

R. Kelley

Date

October 2, 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

HAMPTON PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER # P22-3119

YEAR > 2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
10-1-12	13123.9	14020.9	-	1410634995	26785	SB, JW, LM
10-2	13124.4	14021.4	-	146669965	344760	SB, JW, LM
10-3	13129.7	14021.8	-	146692895	22,940	SB, JW, LM
10-4	13125.0	14022.0	-	146710725	17,830	S.W.S.B. C.B
10-5	13125.1	14022.2	-	146723868	13143	LM, JW, CB
10-6	13125.4	14022.5	-	146743714	19848	MS, CB, KA
10-7	13126.5	14023.1	-	146808572	64856	MS, CB, KA
10-8	13126.9	14023.5	-	146837072	28,500	LM, CB, JW
10-9	13127.1	14023.9	-	146856287	15,215	SB, JW
10-10	13127.4	14024.1	-	146877526	21239	LM, JW
10-11	13127.7	14024.4	-	146896465	18939	LM, SB, CB, JW
10-12	13127.9	14024.7	-	146917892	21,427	SB, LM, CB
10-13	13128.1	14024.9	-	146931606	13,714	SB, SM, MH
10-14	13128.4	14025.3	-	146954666	23,054	SB, SM
10-15	13128.7	14025.7	-	1469779267	24,607	SB, JW
10-16	13129.0	14025.9	-	146999206	19,939	SB, JW, LM, CB
10-17	13129.2	14026.2	-	147016776	17,570	SB, JW, LM, CB
10-18	13129.5	14026.5	-	147036570	19794	LM, LM, E.B
10-19	13129.8	14026.8	-	147058673	22103	SB, JW, LM, CB
10-20	13130.2	14027.0	-	147074042	15,369	SB, RP, WR
10-21	13130.3	14027.3	-	147095761	19,719	SB, RP, WR
10-22	13130.7	14027.7	-	147124521	20,760	SB, LM, CB
10-23	13131.0	14028.0	-	147144127	19,606	LM, CB
10-24	13131.3	14028.3	-	147166346	22,219	SB, JW, LM, CB
10-25	13131.5	14028.6	-	147184726	18,380	SB, JW, LM, CB
10-26	13131.8	14028.9	-	147203417	18,391	SB, JW, LM, CB
10-27	13132.0	14029.1	-	147216751	13,634	SB, KA, RP
10-28	13132.3	14029.3	-	147237151	20,400	SB, KA, RP
10-29	13132.9	14030.6	-	147304109	66,958	SB, LM, JW
10-30	13135.4	14033.2	-	147480732	176,623	SB, LM, JW
10-31	13135.8	14033.7	-	147512823	33,091	SB, LM, JW

Signature

B. Bentley

Date

Nov 5th 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

**HAMPTON PUMP STATION
MONTHLY PUMP READINGS**

WORK ORDER #

P223263

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT **NOV** DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005133	0005134	N/A	Readings	Flow	NAME
11-1	13136.1	14034.0	-	147635572	22,799	SB, JW
11-2	13136.4	14034.3	-	147556386	20,714	SB, LM, JW
11-3	13136.7	14034.6	-	147578915	22,639	CB, SB, JA
11-4	13137.0	14034.9	-	147597248	18,328	CB, SB, DA
11-5	13137.3	14035.2	-	14763327	25,884	SB, JW, LM, CB
11-6	13137.5	14035.5	-	147642284	19,157	SB, JW, LM, CB
11-7	13137.7	14035.8	-	147659158	14,874	SB, JW
11-8	13138.0	14036.1	-	147677977	18,819	SB, LM, CB
11-9	13138.3	14036.4	-	147699219	21,242	LM, JW, CB
11-10	13138.4	14036.6	N/A	147710801	11,582	FOX, AR, SPALDING
11-11	13138.7	14036.9	N/A	147733610	22,809	FOX, AR, SPALDING
11-12	13139.2	14037.4	-	147746318	32,108	SB, JW, LM, CB
11-13	13139.5	14037.7	-	147793009	26,691	SB, JW, LM, CB
11-14	13139.8	14038.1	-	147815434	22,425	SB, JW, LM, CB
15	13140.2	14038.4	-	147839335	23,801	SB, CB
16	13140.5	14038.8	-	147861363	22,128	SB, CB
17	13140.6	14039.0	-	147874584	13,221	SB, SM, CB
18	13140.9	14039.3	-	147896732	22,148	SB, SM, CB
19	13141.2	14039.7	-	147918840	22,108	SB, CB
20	13141.7	14039.8	-	147931256	15,414	CB, SB, JA
21	13141.7	14040.2	-	147956164	21,920	LM, JW, SA
22	13142.0	14040.4	-	147973702	17,538	SB, SM, CB
23	13142.2	14040.7	-	147993717	20,015	SB, SM, CB
11/24/12	13142.5	14041.0	-	148011482	17,765	MS
11/25/12	13142.7	14041.2	-	148029106	17,624	MS
10/26/12	13143.0	14041.5	-	148050906	21,801	LM, SB, CB
11-27	13143.2	14041.8	-	148068760	17,853	SB, LM, CB
11-28	13143.5	14042.0	-	148086301	17,541	SB, LM, CB
11/29/12	13143.7	14042.3	-	148101860	13,589	MS, CB, LM, SB
11-3	13143.9	14042.6	-	148119859	17,999	SB, JW, LM

Signature

BB Miller

Date

Dec 4 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

HAMPTON PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER # P223495

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

DATE	PUMP #1 0005133	PUMP #2 0005134	PUMP #3 N/A	Readings	Flow	NAME
12-01-12	13144.2	14042.8	N/A	148135071	15.212	MS, RP, AR
12-02-12	13144.4	14043.1	N/A	148154820	19.749	MS, RP, AR
12-3	13144.7	14043.4	-	148181524	26.504	SB, CB
12-4	13145.0	14043.7	-	148198908	17.576	SB, CB
12-5	13145.2	14044.0	-	148216066	17.160	SB, LM, MS
12-6	13145.5	14044.3	-	148235621	19.561	SB, LM, MS
12/7/12	13145.7	14044.5	-	14825905	17.284	LM, MS
12-8	13146.0	14044.8	-	148273911	21.086	SB, DA, RP
12-9	13146.2	14045.2	-	148294957	20.966	SB, DA, RP
12-10	13146.5	14045.5	-	148316633	21.682	SB, LM, MS
12-11	13146.8	14045.7	-	148334011	17.384	SB, RP
12-12	13147.0	14046.1	-	148353643	19.626	SB, LM, MS
12-13	13147.3	14046.4	-	148375309	23.660	SB, LM, MS
12-14-12	13147.6	14046.6	-	148395122	19.813	LM, MS, SB
12-15-12	13147.8	14047.0	-	148417111	17.573	OB, SB, RP
12-16-12	13148.2	14047.4	-	148431316	25.621	CB, OB, RP
12-17-12	13148.6	14047.7	-	148465874	26.558	SB, LM, MS
12-18-12	13148.8	14048.0	-	148483566	17.492	SB, LM, MS
12-19-12	13149.1	14048.3	-	148503251	19.885	SB, LM, MS
12-20-12	13149.3	14048.6	-	148520896	17.645	SB, LM, MS
12-21-12	13150.3	14049.5	-	148588570	67.674	LM, MS, SB
12-22-12	13150.5	14049.8	-	148606202	17.632	SB, SM, SS
12-23-12	13150.8	14050.2	-	148628631	22.429	SB, WR, SS
12-24-12	13151.1	14050.5	-	148653255	24.624	SB, WR, SS
12-25-12	13151.5	14050.8	-	148677922	24.717	SB
12-26-12	13151.8	14051.3	-	148707699	27.727	OB, MS, MS
12-27-12	13153.5	14053.3	-	148835669	127.916	SB, LM
12-28-12	13153.7	14053.6	-	148857847	22.178	SB, LM
12-29-12	13154.0	14053.9	-	148876159	18.312	OB SM
12-30-12	13154.3	14054.2	-	14888457	20.298	OB SM
12-31-12	13154.7	14054.5	-	148920920	24.463	CB SM

Signature

B. Bailey

Date

12-31-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

WORK ORDER #

7221685

YEAR > 2012

CIRCLE THE MONTH (JAN) FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3	NAME
DATE	0005179	0005180	0005181	
1/1/12	1755.1	2015.9	3348.6	MS, SB, PA
1/2/12	1755.1	2015.9	3350.7	SB, PA, MS
1/3/12	1755.1	O/S	3352.7	S.W.S.B.CB
1/4/12	1755.1	O/S	3354.7	S.B.CB JW
1/5/12	1755.1	O/S	3357.3	S.B.CB JW
1/6/12	1755.1	O/S	3359.0	CB, W.S.B
1-7-12	1755.1	O/S	3360.8	SB, SM, SS
1-8-12	1755.1	O/S	3362.6	SB, SM, SS
1-9-12	1755.1	O/S	3364.6	SB, JW
1-10-12	1755.1	O/S	3367.0	S.W.S.B.CB
1-11-12	1755.1	O/S	3368.8	SB, JW, CB
1-12-12	1755.1	O/S	3372.0	CB, SB, JW
1-18-12	1755.1	O/S	3374.6	CB, SB, JW
1-14-12	1755.1	O/S	3376.8	SB, MS, W.P
1-15-12	1755.1	O/S	3379.1	MS, SB, W.P
1-16-12	1755.1	O/S	3381.1	SB, MS, W.P
1-17-12	1755.1	O/S	3383.5	CB, SB, JW
1-18-12	1755.1	O/S	3385.5	CB, SB, CB
1-19-12	1755.1	O/S	3387.7	CB, SB
1-20-12	1755.1	O/S	3389.1	SB, PA
1-21-12	1755.1	O/S	3391.5	SB, MS, PA
1-22-12	1755.1	O/S	3393.9	SB, PA, MS
1-23-12	1755.1	O/S	3396.0	CB, JW
1-24-12	1755.1	O/S	3398.2	SB, CB, JW
1-25-12	1755.1	O/S	3400.2	S.W.S.B.CB
1-26-12	1755.1	O/S	3402.2	SB, CB, JW
1-27-12	1755.1	O/S	3404.4	S.B. JW, CB
1-28-12	1755.1	O/S	3406.2	CB, BH, PA, SB
1-29-12	1755.1	O/S	3408.1	CB, BH, SB, SM
1-30-12	1755.1	O/S	3410.1	CB, SB, JW
1-31-12	1755.1	O/S	3412.0	SB, CB, JW

Signature

[Handwritten Signature]

Date

Feb 1 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

WORK ORDER #

P 221 870

YEAR >

2012

CIRCLE THE MONTH JAN **FEB** MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON, DOUGLASADLE, <u>UPHAMBROOK</u> , MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3	
	0005179	0005180	0005181	NAME
2-1-12	1755.1	2015.9	3413.9	CB, SB, JW
2-2-12	1755.1	2015.9	3416.6	SB, CB, JW
2-3-12	1755.1	2015.9	3418.6	S.W. SB
2-4-12	1755.1	2015.9	3420.0	FOX, PIFE, NICKS
2-5-12	1755.1	2015.9	3421.7	FOX, PIFE, NICKS
2-6-12	1755.1	2015.9	3423.6	CB SB
2-7-12	1755.1	2015.9	3425.5	CB SB
2-8-12	1775.1	2015.9	3427.2	SB, CB, JW
2-9-12	1775.1	2015.9	3429.1	CB, SB, SW
2-10-12	1775.1	2015.9	3430.8	SB, CB, SW
2-11-12	1775.1	2015.9	3432.8	CB, CB, AR
2-12-12	1775.1	2015.9	3434.4	CB, CB, AR
2-13-12	1775.1	2015.9	3436.2	CB SB
2-14-12	1775.1	2015.9	3437.9	C.B. SW, SB
2-15-12	1775.1	2015.9	3439.6	CB SB, JW
2-16-12	1775.1	2015.8	3441.3	SB, JW
2-17-12	1775.1	2015.8	3443.2	S.B. JW
2-18-12	1755.2	2015.8	3444.7	MS, RP, WR
2-19-12	1755.2	2015.9	3446.3	MS, WR, RP
2-20-12	1755.2	2015.9	3448.5	MS, RP, WR
2-21-12	1755.2	2015.9	3451.4	SB, CB, JW
2-22-12	1755.2	2015.9	3453.8	CB JW
2-23-12	1755.2	2015.9	3456.1	S.W. SB
2-24-12	1755.2	2015.9	3458.3	J.W. C.B. SB
2-25-12	1755.2	2015.9	3460.4	MS, CB, AR
2-26-12	1755.2	2015.9	3462.4	MS, CB, AR
2-27-12	1755.2	2015.9	3463.4	J.W. SB, CB
2-28-12	1755.2	2015.9	3466.3	J.W. SB, CB
2-29-12	1755.2	2015.9	3468.2	SB, CB, JW

Signature

[Signature]

Date

2-29-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

WORK ORDER #

P222143

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name WWTP STATIONS

PM ID Number 854

Asset Numbers 0001602, 0005152, 0005178, 0005455

Asset Description: WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY

Asset Location: 4 Different Locations Based on Location of Pump Station

PM Frequency: Monthly

	PUMP #1	PUMP #2	PUMP #3	
DATE	0005179	0005180	0005181	NAME
3-1-12	1755.2	2015.9	3474.7	SB, CB
3-2-12	1755.2	2015.9	3478.6	SB, CB, JW
3-3-12	1755.2	2015.9	3483.3	SB, DA, SS
3-4-12	1755.2	2015.9	3487.7	SB, SS, DA
3-5-12	1755.2	2015.9	3491.2	SB, CB, JW
3-6-12	1755.2	2015.9	3495.0	SB, CB, JW
3-7-12	1755.2	2015.9	3497.4	SB, CB, JW
3-8-12	1755.2	2015.9	3500.6	SB, CB, JW
3-9-12	1755.2	2015.9	3503.6	SB, CB, JW
3-10-12	1755.2	2015.9	3506.7	CB, CB, PA
3-11-12	1755.2	2015.9	3509.3	CB, CB, PA
3-12-12	1755.2	2015.9	3512.0	SB, CB, JW
3-13-12	1755.2	2015.9	3514.7	SB, CB, JW
3-14-12	1755.2	2015.9	3517.5	SB, CB, JW
3-15-12	1755.2	2015.9	3519.8	SB, CB, JW
3-16-12	1755.2	2015.9	3522.2	J.W. SB
3-17-12	1755.2	2015.9	3524.3	SB, SS, SM
3-18-12	1755.2	2015.9	3526.4	SB, SS, SM
3-19-12	1755.2	2015.9	3528.4	S.B. JW
3-20-12	1755.2	2015.9	3530.6	S.B. JW
3-21-12	1755.2	2015.9	3534.6	SB, JW
3-22-12	1755.2	2015.9	3534.9	J.W. HM
3-23-12	1755.2	2015.9	3538.1	J.W. HM
3-24-12	1755.3	2015.9	3538.8	CB, RP, WR
3-25-12	1755.3	2015.9	3542.2	CB, RP, WR
3-26-12	1755.3	2015.9	3545.1	J.W. C.B.
3-27-12	1755.3	2015.9	3547.2	J.W. HM
3-28-12	1755.3	2015.9	3549.5	J.W. SB
3-29-12	1755.3	2015.9	3551.8	SB, CB, JW
3-30-12	1755.3	2015.9	3553.8	SB, JW
3/31-12	1755.3	2015.9	3555.8	FOX, RP, MR.

Signature

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Date

4-11-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR > 2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3	NAME
DATE	0005179	0005180	0005181	
4/1/12	1755.3	2015.9	3552.7	FOX RP, RP
4-2-12	1755.3	2015.9	3559.7	S.B, S.W
4-3-12	1755.3	2015.9	3561.6	SB, CB
4-4-12	1755.3	2015.9	3563.6	CB SB
4-5-12	1755.3	2015.9	3565.5	SB, JU
4/6/12	1755.3	2015.9	3567.4	FOX, PETE, RP
4-7-12	1755.3	2015.9	3569.1	S.B, C.B, PA
4-8-12	1755.3	2015.9	3570.8	SB, CB, PA
4-9-12	1755.4	2015.9	3572.5	SB, CB
4-10-12	1755.4	2015.9	3574.7	CB SB
4-11-12	1755.4	2015.9	3576.0	C.B, W, SP
4-12-12	1755.4	2015.9	3577.7	SB, SW
4-13-12	1755.4	2015.9	3579.2	W, C.B
4-14-12	1755.4	2015.9	3580.7	MS, DA, SS, CL
4-15-12	1755.4	2015.9	3582.3	MS, CL, DA, SS
4-16-12	1755.4	2015.9	3583.9	CB, SB
4-17-12	1755.4	2015.9	3585.6	CB, SB, SW
4-18-12	1755.4	2015.9	3587.1	CB, SB, SW
4-19-12	1755.4	2015.9	3589.0	C.B, W, SB
4-20-12	1755.4	2015.9	3590.7	S.W, C.B, SB
4-21-12	1755.4	2015.9	3592.1	MS, CB
4-22-12	1755.4	2015.9	3593.8	MS, CB, W, F
4-23-12	1755.4	2015.9	3595.3	CB, SB
4-24-12	1755.4	2015.9	3601.5	CB, SB, CL, M
4-25-12	1755.4	2015.9	3603.4	L.M, SB, CB
4-26-12	1755.4	2015.9	3605.4	L.M, SB
4-27-12	1755.4	2015.9	3607.9	L.M, S.W
4-28-12	1755.6	2015.9	3609.8	Gleason, Fox
4-29-12	1755.7	2015.9	3611.7	Gleason, Fox
4-30-12	1755.8	2015.9	3613.3	SB, CB

Signature

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City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

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12

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name WWTP STATIONS

PM ID Number 854

Asset Numbers 0001602, 0005152, 0005178, 0005455

Asset Description: WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY

Asset Location: 4 Different Locations Based on Location of Pump Station

PM Frequency: Monthly

DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
5-1-12	1755.8	2015.9	3615.2	CB SB
5-2-12	1755.8	2015.9	3617.4	CB L2W
5-3-12	1755.9	2015.9	3618.7	SB, CB
5-4-12	1755.9	2015.9	3620.5	CB SB
5-5-12	1755.9	2015.9	3622.3	CB DR CB
5-6-12	1755.9	2015.9	3624.0	CB DR CB
5-7-12	1755.9	2015.9	3625.7	CB SB
5-8-12	1755.9	2015.9	3627.4	SB, CB
5-9-12	1755.9	2015.9	3629.2	CB SB
5-10-12	1755.7	2015.9	3632.8	CB SB
5-11-12	1755.9	2015.9	3635.0	CB SB
5-12-12	1755.9	2015.9	3636.2	CB SB DA
5-13-12	1755.9	2015.9	3638.0	CB SB DA
5-14-12	1755.9	2015.9	3639.8	CB SB
5-15-12	1755.9	2017.5	3640.1	CB SB
5-16-12	1755.9	2018.5	3640.1	CB SB
5-17-12	1755.9	2019.9	3640.1	CB SB
5-18-12	1755.9	2021.1	3640.1	CB SB
5-19-12	1756.9	2022.0	3640.1	CB SB PA
5-20-12	1756.0	2023.1	3640.1	CB SB PA
5-21-12	1756.0	2024.3	3640.1	SB, CB
5-22-12	1756.0	2025.5	3640.1	CB SB
5-23-12	1756.0	2027.4	3640.1	CB SB
5-24-12	1756.0	2029.3	3640.1	CB SB
5-25-12	1756.0	2030.4	3640.1	SB
26	1756.0	2031.6	3640.1	FOX, MCRAB, SPARKING
27	1756.0	2032.9	3640.1	FOX, MCRAB, STEVE
28	1756.0	2033.7	3640.1	FOX, MCRAB, STEVE
29	1756.0	2034.6	3640.1	CB SB
30	1756.0	2036.2	3640.1	CB SB
31	1756.0	2036.9	3640.1	CB SB

Signature

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Date

May 31 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

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CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
6-1-12	1756.0	2038.2	3640.1	SB, CB
2	1756.0	2039.2	3640.2	CB SB
3	1756.0	2040.6	3640.2	CB SB
4	1756.1	2041.6	3640.2	CB SB
5	1757.7	2041.6	3640.2	CB SB
6	1758.5	2041.6	3640.4	CB SB
7	1758.5	2041.6	3642.3	CB SB
8	1758.5	2041.6	3643.4	SB
9	1758.5	2041.6	3645.0	MS, RA, MH
10	1758.5	2041.6	3646.4	MS, MH, RA
11	1758.5	2041.6	3648.3	CB SB
12	1758.5	2041.6	3650.0	CB SB
13	1758.5	2041.6	3651.5	SB, CB
14	1758.5	2041.6	3653.6	SB, CB
15	1758.5	2041.6	3655.2	CB SB
16	1758.5	2041.6	3656.1	MS, RA, AR
17	1758.5	2041.6	3657.5	MS, RA, AR
18	1758.5	2041.6	3658.9	SB, JW
19	1758.5	2041.6	3660.4	C.B. L.M. BU
20	1758.5	2041.6	3662.3	L.M. BU, SB, CB
21	1758.5	2041.6	3663.4	JW SB
22	1758.5	2041.6	3665.2	JW L.M. C.B.
23	1758.5	2041.6	3666.3	FOX, PETER, RICHMOND
24	1758.5	2041.6	3667.7	FOX, PETER, RICHMOND
25	1758.7	2041.7	3669.1	SB, L.M., CB
26	1758.7	2041.7	3675.5	SB, JW
27	1758.7	2041.7	3677.1	J.W.S.B.
28	1758.7	2041.7	3678.8	J.W. SB
29	1758.7	2041.7	3680.5	J.W. SB
30	1760.7	2041.7	3682.1	SB SM CB

Signature

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Date

June 30, 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR > 12

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3	NAME
DATE	0005179	0005180	0005181	
7-1-12	1758.7	2041.7	3683.6	SB, SM
7-2-12	1758.7	2041.7	3685.2	LM, SW
7-3-12	1758.7	2041.7	3686.7	SB, JW
7-4-12	1758.7	2041.7	3687.9	SB, SM
7-5-12	1758.8	2041.7	3689.3	SW, CB, LM, SB
7-6-12	1758.8	2041.7	3691.0	SB, CB
7-7-12	1758.8	2041.7	3692.0	SB, RA, SS
7-8-12	1758.8	2041.7	3693.3	SB, SS, KA
7-9-12	1758.8	2041.7	3694.7	S.B. SW
7-10-12	1762.5	2044.8	3700.5	S.B. SW
7-11-12	1762.5	2044.8	3704.5	S.B. LM, JW
7-12-12	1762.5	2044.8	3706.7	S.B. LM, SW
7-13-12	1762.5	O/S	3709.1	SB, LM
7-14-12	1762.5	O/S	3710.3	SB, CB, AR
7-15-12	1762.5	O/S	3711.9	SB, CB, AR
7-16-12	1762.5	O/S	3713.8	SW, LM, SB
7-17-12	1762.5	O/S	3715.6	SW, SB
7-18-12	1763.4	2045.3	3715.9	SW, SB, CM
7-19-12	1763.4	2046.5	3715.9	SW, LM
7-20-12	1763.4	2047.2	3715.9	SB, LM, JW
21	1763.4	2048.2	3715.9	FOX, DA, SS
22	1763.4	2049.3	3715.9	FOX, DA
23	1763.4	2050.8	3715.9	SW, LM, JW
24	1763.4	2051.7	3715.9	SB, JW, LM
25	1763.4	2052.7	3715.9	SB, LM, JW
26	1763.4	2053.6	3715.9	LM, SB, SW
27	1763.4	2054.9	3715.9	CB, SB
28	1763.4	2055.6	3715.9	CB, RP, SM
29	1763.4	2056.7	3715.9	CB, RP, SM
30	1763.4	2057.7	3716.9	LM, SB, JW
31	1763.4	2058.6	3716.0	SW, CB

Signature

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Date

August 6 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR > 2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3	
DATE	0005179	0005180	0005181	NAME
8-1-12	1763.4	2060.5	3716.0	C.B. SB
8-2-12	1763.4	2062.1	3716.0	C.B. SB
8-3-12	1763.4	2063.1	3716.0	J.W. SB
8-4-12	1763.4	2063.1	3716.0	MS, RP, PA
8-5-12	1763.4	2065.1	3716.0	MS, PA, RP
8-6-12	1763.4	2065.8	3716.0	LM TW SB CB
8-7-12	1763.4	2067.8	3716.0	J.W. SB
8-8-12	1763.4	2067.9	3716.0	G.W. S.B
8-9-12	1763.4	2068.7	3716.0	G.W. S.B
8-10-12	1763.4	2070.0	3716.0	S.B. TW
8-11-12	1763.4	2071.4	3716.0	MS CB WR
8-12-12	1763.4	2072.7	3716.0	MS CB WR
8-13-12	1763.4	2073.6	3716.0	S.B. TW
8-14-12	1763.5	2074.6	3716.0	LM TW SB CB
8-15-12	1763.5	2075.6	3716.0	LM TW
8-16-12	1763.5	2076.8	3716.0	LM CB RP
8-17-12	1763.5	2078.1	3716.0	S.B. J.W. LM
8-18-12	1763.5	2078.9	3716.0	S.B. PA, RP
8-19-12	1763.5	2079.5	3716.0	S.B. PA, RP
8-20-12	1763.5	2080.0	3716.0	S.B. LM
8-21-12	1763.5	2081.7	3716.0	S.B. LM
8-22-12	1763.5	2082.7	3716.0	LM
8-23-12	1763.5	2083.6	3716.1	J.W. LM, S.B.
8-24-12	1763.5	2083.6	3717.5	LM TW SB
8-25-12	1763.7	2083.0	3718.4	SB, DA, BB
8-26-12	1763.7	2083.9	3721.4	SB, DA, BB
8-27-12	1763.7	2083.7	3723.2	J.W. SB
8-28-12	1763.7	2083.7	3724.8	G.W. S.B
8-29-12	1763.7	2083.7	3726.4	S.B. RP
8-30-12	1763.7	2083.7	3727.7	S.B. J.W.
8-31-12	1765.7	2083.7	3729.3	S.B. J.W.

Signature

B. Buckley

Date

8-31-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
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WORK ORDER #

YEAR > 12

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name:	WWTP STATIONS
PM ID Number:	854
Asset Numbers:	0001602, 0005152, 0005178, 0005455
Asset Description:	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location:	4 Different Locations Based on Location of Pump Station
PM Frequency:	Monthly

	PUMP #1	PUMP #2	PUMP #3	NAME
DATE	0005179	0005180	0005181	
9-1-12	1763.7	2083.7	3730.6	CB MH AR
9-2-12	1763.7	2083.7	3732.0	CB MH AR
9-3-12	1763.7	2083.7	3734.8	CB MH AR
9-4-12	1763.7	2083.7	3736.7	S.B.S.W.
9-5-12	1763.7	2083.7	3738.4	S.B.S.W.
9-6-12	1763.7	2083.7	3740.1	S.B.S.W.
9-7-12	1763	2083.7	3742.0	B-hone
9-8-12	1763.7	2083.7	3744.9	CB BP SM
9-9-12	1763.7	2083.7	3746.8	CB BP SM
9-10-12	1763.7	2083.7	3749.2	S.B.S.W.
9-11-12	1763.7	2083.7	3751.1	S.B.S.W.
9-12-12	1763.7	2083.7	3752.5	S.B.S.W.
9-13-12	1763.7	2083.7	3754.0	S.B.S.W.
9-14-12	1763.7	2083.7	3755.6	S.B.S.W.
9/15/12	1763.7	2083.7	3757.1	WASTE ROOM, FOX
9/16/12	1763.8	2083.7	3758.3	WASTE ROOM, FOX
9-17-12	1763.8	2083.7	3759.9	SB
9-18-12	1763.8	2083.7	3761.1	LM SB CB
9-19-12	1763.8	2083.7	3765.6	SB.S.W.
9-20-12	1763.8	2083.7	3767.7	S.B.S.W.
9-21-12	1763.8	2083.7	3769.5	S.B.S.W.
9-22-12	1763.8	2083.7	3770.9	SB C.B. AR
9-23-12	1763.8	2083.7	3772.4	SB C.B. AR
9-24-12	1763.8	2083.7	3774.9	SB, JW, CB
9-25-12	1763.8	2083.7	3775.5	JW S.B.
9-26-12	1763.8	2083.7	3776.9	S.B.S.W.
9-27-12	1763.8	2083.7	3778.5	S.B.S.W.
9/29/12	1763.8	2083.7	3781.6	MPS, AQUIFER, SPREADING
9/30/12	1763.8	2083.7	3783.1	MPS, AQUIFER, SPREADING

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Date

October 2 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
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**UPHAMBROOK STATION
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WORK ORDER #

9223119

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CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3	
DATE	0005179	0005180	0005181	NAME
10-1-12	1763.8	2083.7	3784.5	SB, JW
10-2-12	1763.8	2083.7	3786.0	SB, JW, LM
10-3-12	1763.8	2083.7	3787.6	LM, JW, SB
10-4-12	1763.8	2083.7	3789.6	LM, SB, CR, SB
10-5-12	1763.8	2083.7	3790.5	SB, JW
10-6-12	1763.8	2083.7	3792.0	MS, CB, PA
10-7-12	1763.8	2083.7	3792.0	MS, CB, KA
10-8-12	1763.8	2083.7	3796.7	SB, O.W
10-9-12	1763.8	2083.8	3798.4	J.W. LM
10-10-12	1763.8	2083.8	3798.4	J.W. LM
10-11-12	1763.8	2083.8	3799.9	J.W. LM
10-12-12	1763.8	2083.8	3801.2	SB, LM, CB
10-13-12	1763.8	2083.8	3802.7	SB, SM, mth
10-14-12	1763.8	2083.8	3804.2	SB, SM
10-15-12	1763.8	2083.8	3805.8	SB, JW
10-16-12	1763.8	2083.8	3807.5	SB, J.W. LM, CB
10-17-12	1763.9	2083.8	3808.9	LM, SB, LM, CB
10-18-12	1763.9	2083.8	3810.3	J.W. S.B
10-19-12	1763.9	2083.8	3812.3	SB, J.W. LM, CB
10-20-12	1763.9	2083.8	3814.2	SB, RP, WA
10-21-12	1763.9	2083.8	3815.8	SB, RP, WA
10-22-12	1763.9	2083.8	3817.0	SB, LM, CB
10-23-12	1763.9	2083.8	3818.4	LM, CB
10-24-12	1763.9	2083.8	3819.8	J.W. S.B
10-25-12	1763.9	2083.8	3821.2	LM, SB, LM, CB
10-26-12	1763.9	2083.8	3822.7	LM, JW, RP, SB
10-27-12	1763.9	2083.8	3823.9	SB, KA, RP
10-28-12	1763.9	2083.8	3825.2	SB, KA, RP
10-29-12	1763.9	2083.8	3826.7	LM, SB, JW
10-30-12	1763.9	2083.8	3832.6	LM, SB, JW
10-31-12	1764.4	2085.8	3833.3	LM, SB, JW

Signature

[Signature]

Date

Nov 5th 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

WORK ORDER #

P223263

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
11-1-12	1764.4	2083.9	3833.3	JW SB
11-2-12	1764.4	2089.1	3833.3	JW SB
11-3-12	1764.4	2090.5	3833.3	CB DA SM
11-4-12	1764.4	2091.8	3833.4	CB DA SM
11-5-12	1764.4	2093.2	3833.8	CB, SB, LM, JW
11-6-12	1764.4	2094.4	3833.4	JW SB, CB
11-7-12	1764.4	2095.7	3833.4	LM, JW, CB, SB
11-8-12	1764.4	2097.0	3833.4	SB, LM, CB
11-9-12	1764.4	2097.9	3833.4	SB, JW
10	1764.4	2098.2	3833.4	FOX, JR, SPALDING
11	1764.4	2100.5	3833.4	FOX, JR, SPALDING
12	1764.4	2101.4	3833.4	SB, LM, CB, JW
13	1764.4	2102.3	3833.4	LM, CB, JW
14	1764.4	2103.6	3833.4	JW, SB
15	1764.4	2104.8	3833.4	SB, CB
16	1764.4	2105.9	3833.4	SB, CB
17	1764.4	2107.0	3833.4	SB, SM, CB
18	1764.4	2108.2	3833.4	SB, SM, CB
19	1764.4	2110.4	3833.4	SB, JW, CB
20	1764.4	2110.7	3833.4	SB, JW, LM
21	1764.4	2111.9	3833.4	SB, JW, LM
22	1764.4	2112.4	3833.4	SB, SM, CB
23	1764.4	2113.4	3833.4	SB, SM, CB
11/24/12	1764.4	2114.5	3833.4	MS
11/25/12	1764.4	2115.6	3833.4	MS
11-26-12	1764.4	2116.7	3833.4	LM, SB, CB
11-27-12	1764.4	2117.8	3833.4	LM, SB, CB
11-28	1764.4	2118.7	3833.5	SB, CB
11/29/12	1764.4	2119.9	3833.5	MS, LM, SB, CB
11-30	1764.4	2120.9	3833.5	SB, JW, LM

Signature

[Signature]

Date

Dec 4 12



City of Richmond
 Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

UPHAMBROOK STATION
MONTHLY PUMP READINGS

WORK ORDER #

P223475

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV **DEC**

Asset PM Group Name WWTP STATIONS

PM ID Number 854

Asset Numbers 0001602, 0005152, 0005178, 0005455

Asset Description WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY

Asset Location 4 Different Locations Based on Location of Pump Station

PM Frequency Monthly

DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
12-1-12	1764.4	2122.2	3833.5	MS, RP, AR
12-2-12	1764.4	2123.3	3833.5	MS, RP, AR
12-3	1764.4	2124.3	3833.5	SB, CB
12-4	1764.4	2125.5	3833.5	SB, CB
12-5-12	1764.4	2126.5	3833.5	LM MS SB
12-6-12	1764.4	2127.6	3833.5	LM MS SB
12-7-12	1764.4	2128.7	3833.5	LM MS
12-8-12	1764.4	2129.9	3833.5	SB, RP, DA
12-9-12	1764.4	2131.1	3833.5	SB, DA, RP
12-10-12	1764.5	2132.2	3833.5	LM MS SB
12-11-12	1764.5	2133.4	3833.5	SB, RP
12-12	1764.5	2134.5	3833.5	SB, LM, MS
12-13	1764.5	2135.6	3833.5	SB, LM, MS
12-14	1764.5	2136.7	3833.5	LM MS SB
12-15	1764.5	2137.7	3833.5	CB SB PA
12-16	1764.5	2138.9	3833.5	CB SB PA
12-17	1764.5	2140.2	3833.5	SB, LM, MS
12-18	1764.5	2141.4	3833.5	SB, LM, MS
12-19	1764.5	2142.6	3833.5	LM SB MC
12-20-12	1764.5	2143.6	3833.5	MS, LM, SB
12-21-12	1764.5	2145.3	3833.5	SB, LM, MS
12-22-12	1764.5	2146.7	3833.5	SB, SM, SS
12-23-12	1764.5	2147.7	3833.5	SB, WR, SS
12-24-12	1764.5	2148.8	3833.5	SB, WR, SS
12-25-12	1764.5	2150.0	3833.5	SB
12-26-12	1764.5	2150.8	3833.5	SB MS MS
12-27-12	1764.5	2155.3	3833.5	LM SB
12-28-12	1764.5	2157.1	3833.5	LM SB
12-29-12	1764.5	2158.5	3833.5	CB SM
12-30-12	1764.5	2159.9	3833.5	CB SM
12-31-12	1764.5	2161.3	3833.6	CB SM

Signature

[Signature]

Date

12-31-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

**MCCLOY PUMP STATION
MONTHLY PUMP READINGS**

WORK ORDER #

P221685

YEAR >

~~2011~~ 2012

CIRCLE THE MONTH (JAN) FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005933	0005934	N/A	Wetwell	Tunnel	NAME
1/1/12	2517.6	5989.5	↓	7.7	7.9	MS, SB, PA
1/2/12	2517.6	5991.2		7.7	7.9	PA, SB, MS
1/3/12	2517.6	5992.9		6.9	7.6	CB SB SW
1/4/12	2517.6	5994.4		8.5	9.0	CB SB JW
1/5/12	2517.6	5996.5		8.3	8.5	CB SB JW
1/6/12	2517.6	5997.9	N/A	8.0	8.1	CB SB JW
1-7-12	2517.6	5999.4		9.5	9.5	SB, SM, SS
1-8-12	2517.6	6001.1		7.7	7.7	SB, SM, SS
1-9-12	2517.6	6002.5		9.7	9.8	JLW SB
1-10-12	2517.6	6004.5		9.4	9.6	SB, JW, CB
1-11-12	2517.6	6006.2		8.2	8.3	SB, JW, CB
1-12-12	2517.6	6016.2		9.0	9.1	CB SB JW
1-13-12	2517.6	6018.4		7.7	7.8	CB SB JW
1-14-12	2517.6	6020.0		7.8	7.1	MS, SA, WB
1-15-12	2517.6	6021.6		7.7	7.8	MS SB WR
1-16-12	2517.6	6023.1		8.2	8.4	SB, MS, WR
1-17-12	2517.6	6024.7		8.9	9.0	CB SB JW
1-18-12	2517.6	6026.2		9.2	9.3	CB CB SB
1-19-12	2517.6	6028.0		9.2	9.3	SB, CB
1-20-12	2517.6	6029.6		9.6	9.2	SB, RP
1-21-12	2517.6	6030.9		9.8	10.0	SB, MS, DA
1-22-12	2517.6	6033.2		15.4	15.4	SB, MS, DA
1-23-12	2517.6	6036.7		9.1	9.2	CB SW
1-24-12	2517.6	6038.2		8.8	9.0	SB, CB, JW
1-25-12	2517.6	6039.6		7.7	7.7	CB SB JW
1-26-12	2517.6	6040.9		9.4	9.6	CB SB JW
1-27-12	2517.6	6042.9		7.6	7.8	CB SB JW
1-28-12	2517.6	6044.5		8.8	9.0	BH SA CB
1-29-12	2517.6	6046.3		8.7	9.0	BH SA CB
1-30-12	2517.6	6048.1		8.1	8.3	CB SB JW
1-31-12	2517.6	6050.1		8.1	8.3	CB SB JW

Signature

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Date

Feb 1 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

**MCCLOY PUMP STATION
MONTHLY PUMP READINGS**

WORK ORDER # P221820

YEAR > 2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, <u>MCCLOY</u>
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	Wetwell	Tunnel	NAME
2-1-12	2517.4	6051.6	NA	8.6	8.8	CB JW SB
2-2-12	2517.4	6055.2		8.6	8.8	CB JW SB
2-3-12	2517.4	6059.5		9.4	9.6	SB, JW
2-4-12	2517.6	6061.2		8.0	8.0	FOX, PATE, NICK
2-5-12	2517.6	6062.9		8.4	8.6	FOX, PATE, NICK
2-6-12	2517.6	6064.6		9.3	9.4	CB SB
2-7-12	2517.6	6065.5		8.5	8.7	CB SB JW
2-8-12	2517.6	6068.4		9.5	9.6	CB SB JW
2-9-12	2517.6	6070.4		7.7	7.9	CB SB JW
2-10-12	2517.6	6072.3		9.8	9.0	CB SB JW
2-11-12	2517.6	6074.1		8.6	8.9	CB CB AR
2-12-12	2517.6	6075.6		9.0	9.3	CB CB AR
2-13-12	2517.6	6077.3		9.2	9.5	CB SB
2-14-12	2517.6	6079.0		8.2	8.4	CB SB JW
2-15-12	2517.6	6080.7		7.6	7.9	CB SB JW
2-16-12	2517.4	6083.3		7.7	8.0	SB, JW
2-17-12	2517.4	6084.2		7.4	7.7	SB, JW
2-18-12	2517.4	6085.7		7.8	8.0	MS, RP, WR
2-19-12	2517.6	6087.3		8.1	8.3	MS, RP, WR
2-20-12	2517.6	6089.6		7.8	8.1	MS, RP, WR
2-21-12	2517.6	6091.9		7.7	8.1	CB SB JW
2-22-12	2517.6	6093.6		7.8	8.1	CB JW
2-23-12	2517.6	6095.1		9.5	9.7	SB, JW
2-24-12	2517.6	6096.8		9.0	9.2	CB SB
2-25-12	2517.6	6098.5		9.9	10.2	MS, CB, AR
2-26-12	2517.6	6100.2		7.9	8.1	MS, CB, AR
2-27-12	2517.6	6101.4		9.7	9.9	CB SB JW
2-28-12	2517.6	6103.4		8.3	8.6	CB SB JW
2-29-12	2517.6	6104.8		9.2	9.5	CB SB JW

Signature B. Butler

Date 2-29-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

**MCCLOY PUMP STATION
MONTHLY PUMP READINGS**

WORK ORDER #

P 222143

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005933	0005934	N/A	Wetwell	Tunnel	NAME
3-1-12	2517.6	6127.8		18.4	18.7	CB SB IN
3-2-12	2517.4	6136.5		9.2	9.3	CB SB IN
3-3-12	2517.6	6151.4		14.6	14.9	3B, DA, SS
3-4-12	2517.6	6156.8		7.9	8.1	SB, SS, DA
3-5-12	2517.6	6158.6		8.8	9.0	CB SB IN
3-6-12	2519.2	6158.6		9.4	9.6	CB SB IN
3-7-12	2520.4	6158.6		9.8	10.1	CB SB IN
3-8-12	2521.9	6158.6		8.4	8.6	CB IN CB
3-9-12	2523.7	6158.6		16.6	17.0	CB IN SB
3-10-12	2527.0	6158.6		8.3	8.6	CB CB PA
3-11-12	2528.3	6158.6		9.5	9.8	CB CB PA
3-12-12	2529.9	6158.6		9.6	7.9	CB SB IN
3-13-12	2531.3	6158.6		8.8	9.0	CB SB IN
3-14-12	2532.7	6158.6		9.6	9.8	CB SB IN
3-15-12	2534.1	6158.6		8.6	8.8	SB, CB IN
3-16-12	2535.6	6158.6		9.0	9.2	SB, IN
3-17-12	2537.1	6158.6		7.5	7.7	SB, SS, SW
3-18-12	2538.0	6158.6		9.9	10.2	SB, SS, SW
3-19-12	2539.4	6158.6		9.6	9.9	SB, IN
3-20-12	2540.8	6158.6		9.4	9.6	SB, IN
3-21-12	2541.9	6158.6		21.5	21.8	SB, IN
3-22-12	2541.9	6158.6		21.7	22.0	IN, HM
3-23-12	2556.1	6161.2		9.3	9.5	IN, HM
3-24-12	2557.8	6161.2		9.8	10.1	CB WR RP
3-25-12	2559.6	6161.2		21.2	21.6	CB WR RP
3-26-12	2566.6	6161.2		16.8	17.1	CB SB IN
3-27-12	2571.0	6161.2		9.9	10.2	TW, HM
3-28-12	2572.9	6161.2		9.0	9.2	SB, IN
3-29-12	2575.9	6161.3		17.1	17.5	CB SB IN
3-30-12	2579.2	6162.7		5.5	7.8	SB, IN
3-31-12	2579.6	6163.5		8.9	9.2	FOX, RP, AR

Signature

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Date

4-11-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

MCCLOY PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	Wetwell	Tunnel	NAME
4/1/12	2579.6	6165.7	—	8.1	8.4	FOX, AR, RP
4-2-12	2580.0	6167.4	—	6.6	7.0	SB, JQ
4-3-12	2580.5	6168.6	—	6.9	7.2	SB, CB
4-4-12	2582.4	6168.7	—	6.3	6.9	SB, CB
4-5-12	2583.9	6168.7	—	5.4	6.9	SB, CB
4/6/12	2585.0	6168.7	—	9.0	9.3	FOX, PETE, RP
4-7-12	2586.2	6168.7	—	8.7	9.0	SB, CB, JQ
4-8-12	2587.4	6168.7	—	8.8	9.2	SB, CB, JQ
4-9-12	2588.6	6168.7	—	9.5	9.7	SB, CB
4-10-12	2589.8	6168.7	—	9.0	9.3	SB, CB
4-11-12	2591.6	6168.7	—	9.2	9.5	SB, CB, JQ
4-12-12	2592.2	6168.7	—	9.8	10.1	SB, JQ
4-13-12	2593.5	6168.7	—	7.7	8.0	CB JW
4-14-12	2594.7	6168.7	—	7.2	7.5	MS, CL, DA, SS
4-15-12	2595.6	6168.7	—	9.8	10.1	MS, CL, DA, SS
4-16-12	2597.1	6168.7	—	7.2	7.4	SB, CB
4-17-12	2598.0	6168.7	—	9.7	9.9	SB, CB, JW
4-18-12	2599.5	6168.7	—	18.1	18.5	SB, CB, JW
4-19-12	2599.5	6168.7	—	18.6	18.9	SB, CB, JW
4-20-12	2599.5	6168.7	—	19.0	19.4	SB, CB, JW
4-21-12	2604.4	6168.7	—	9.2	9.5	MS, CL
4-22-12	2604.4	6168.7	—	9.8	9.9	MS, CB, WR
4-23-12	2612.4	6168.7	—	20.2	20.6	SB, CB
4-24-12	2618.9	6168.7	—	9.3	9.7	SB, CB, LM
4-25-12	2619.8	6168.7	—	8.4	8.8	SB, CB, LM
4-26-12	2619.8	6169.7	—	2.6	6.9	SB, LM
4-27-12	2625.6	6170.5	—	8.7	9.0	B.W.L.M
4-28-12	2625.6	6170.5	0/8	13.9	14.2	FOX, S.S. S.M. S.H.
4-29-12	2625.6	6170.5	6/8	17.12	17.4	FOX, S.S. S.M. S.H.
4-30-12	2628.5	6171.7	—	8.3	8.6	SB, CB

Signature

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Date

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City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

MCCLOY PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

8722425

YEAR > MAY

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005933	0005934	N/A	Wetwell	Tunnel	NAME
5-1-12	2629.2	6172.5	—	9.3	9.6	SB, CB
2	2630.1	6173.2	—	8.7	9.0	CB, LM, JW
3	2630.6	6174.0	—	9.5	9.7	SB, CB
4	2631.6	6174.8	—	8.5	8.7	SB, CB
5	2632.3	6175.3	—	9.4	9.6	CB, DR, CB
6	2633.3	6176.6	—	8.5	8.8	CB, DR, CB
7	2634.8	6177.3	—	9.5	9.7	SB, CB
8	2634.8	6178.1	—	9.9	10.1	SB, CB
9	2635.5	6179.2	—	8.6	8.8	SB, CB
10	2635.7	6179.3	—	25.3	25.6	SB, CB
11	2635.8	6179.3	—	25.6	26.0	SB, CB
12	2635.8	6179.3	—	25.7	26.6	SB, CB, DA
13	2635.8	6179.3	—	25.8	26.2	SB, DA, CB
14	2650.1	6183.2	—	9.4	9.7	SB, CB
15	2651.0	6184.2	—	9.4	9.7	SB, CB
16	2651.7	6185.1	—	9.3	9.6	SB, CB
17	2652.5	6186.0	—	8.5	8.8	SB, CB
18	2653.3	6186.6	—	9.9	10.1	SB, CB
19	2653.8	6187.5	—	9.9	10.2	SB, CB, PA
20	2654.5	6188.4	—	7.6	7.9	SB, CB, PP
21	2655.3	6189.4	—	8.6	8.9	SB, CB
22	2655.9	6190.0	—	9.9	10.2	SB, CB
23	2656.7	6190.7	—	9.2	9.5	SB, CB
24	2657.5	6191.6	—	9.4	9.6	SB, CB
25	2658.0	6192.6	—	9.5	9.8	SB, LM, JW
26	2658.6	6193.3	N/A	8.8	9.1	FOX, MICROB, SPALDING
27	2659.4	6193.9	N/A	8.8	9.1	FOX, MICROB, SIBB
28	2659.9	6194.9	N/A	8.3	8.6	FOX, MICROB, SIBB
29	2660.8	6195.6	N/A	8.3	8.6	CB, SB
30	2661.3	6196.4	—	9.8	10.1	SB, CB
31	2661.8	6197.4	—	9.8	10.1	SB, CB

Signature

[Signature]

Date

May 31 2012



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

MCCLOY PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR > JUNE

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005933	0005934	N/A	Wetwell	Tunnel	NAME
6-1-12	2662.7	6198.4	-	8.6	8.8	SB, CB
2	2662.8	6198.4	-	21.0	21.4	SB, CB, WR
3	2670.4	6198.7	-	9.6	9.9	SB, CB
4	2671.3	6199.5	-	7.8	8.1	SB, CB
5	2671.8	6200.4	-	8.0	8.3	SB, CB
6	2672.3	6201.2	-	13.7	14.2	SB, CB
7	2673.7	6202.3	-	10.1	10.6	SB, CB
8	2674.3	6203.7	-	8.4	8.9	SB
9	2675.0	6204.2	-	8.5	8.9	MS, DA, MH
10	2675.5	6204.9	-	9.6	10.0	MS, MH, DA
11	2676.2	6205.6	-	8.4	8.8	SB, CB
12	2676.6	6206.6	-	8.5	8.7	SB, CB
13	2677.2	6206.9	-	20.8	21.1	SB, CB
14	2678.6	6207.7	-	19.7	20.6	SB, CB
15	2679.2	6208.3	-	8.0	8.3	SB, CB
16	2684.8	6208.8	-	9.4	9.7	MS, RP, AP
17	2685.5	6209.6	-	8.1	8.4	MS, RP, AP
18	2686.2	6210.4	-	9.0	9.3	SB, JW
19	2686.7	6211.2	-	9.4	9.7	LM, JW, CB
20	2687.5	6211.9	-	7.6	7.9	SB, JW
21	2688.0	6212.2	-	9.6	9.9	SB, JW
22	2688.6	6213.6	-	9.6	9.8	LM, JW, CB
23	2689.3	6213.6	-	7.6	8.1	FOX, PATE, RODNEY
24	2689.8	6214.1	-	9.1	9.4	FOX, PATE, RODNEY
25	2690.3	6214.9	-	8.7	9.0	SB, RP
26	2691.3	6214.9	-	2.9	7.1	SB, LM, CB
27	2691.5	6214.9	-	16.6	16.9	SB, JW
28	2694.2	6216.0	-	5.9	7.8	SB, JW
29	2696.3	6216.0	-	8.8	9.1	SB, JW
30	2696.3	6216.1	-	15.1	15.4	SB, CB, SM

Signature

[Signature]

Date

June 30 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

MCCLOY PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JUL AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005933	0005934	N/A	Wetwell	Tunnel	NAME
7-1-12	2696.3	6218.7	-	20.1	20.5	SB, CB, SM
7-2-12	2696.3	6218.7	-	20.9	21.3	LM, JW
7-3-12	2708.5	6219.5	-	8.9	9.2	SB, JW
7-4-12	2709.6	6220.4	-	8.0	8.2	SB, CB
7-5-12	2711.0	6222.5	-	7.9	8.1	SB, JW
7-6-12	2712.4	6224.0	-	9.1	9.3	SB, CB
7-7-12	2713.2	6224.9	-	9.5	9.7	SB, SS, KA
7-8-12	2714.4	6226.3	-	7.8	8.0	SB, SS, KA
7-9-12	2715.2	6227.8	-	9.6	9.8	SB, JW
7-10-12	2721.9	6228.8	-	41.7	42.1	SB, JW
7-11-12	2742.0	6228.8	-	25.1	26.2	SB, JW
7-12-12	2770.5	6228.8	-	16.8	17.1	SB, JW
7-13-12	2774.1	6230.4	-	7.9	8.1	SB, LM
7-14-12	2774.9	6231.4	-	8.3	8.5	SB, CB
7-15-12	2776.1	6232.9	-	9.0	9.3	SB, CB
7-16-12	2776.7	6233.5	-	20.3	20.6	SB, JW
7-17-12	2776.7	6233.5	-	20.9	20.2	SB, JW
7-18-12	2778.7	6233.5	-	20.8	21.1	SB, JW
7-19-12	2795.4	6234.3	-	9.7	9.8	LM, JW
7-20-12	2796.6	6235.7	-	9.8	10.1	SB, LM, JW
21	2798.3	6237.2	-	8.7	8.9	Fox, DA, SS.
22	2800.5	6239.2	-	9.5	9.7	Fox, DA
23	2802.4	6241.3	-	9.2	9.4	SB, JW, LM
24	2803.6	6242.4	-	9.9	10.1	SB, JW, LM
25	2805.1	6244.0	-	8.5	8.6	SB, CB, JW, LM
26	2806.9	6244.8	-	8.9	9.0	LM, JW, SB
27	2808.3	6246.2	-	8.4	8.6	SB, CB
28	2809.7	6247.4	-	8.2	8.5	CB, SM, RP
29	2810.9	6249.2	-	8.9	9.2	CB, SM, RP
30	2812.5	6250.6	-	9.9	10.2	SB, JW
31	2813.8	6252.8	-	8.5	8.7	SB, CB, SS, LM

Signature

[Signature]

Date

August 6/12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

MCCLOY PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005933	0005934	N/A	Wetwell	Tunnel	NAME
8-1-12	2822.1	6261.4	-	19.2	19.5	SB, CB
8-2	2827.8	6263.1	-	8.8	9.1	SB, CB
8-3	2846.6	6263.5	-	21.8	22.2	SB, CB
8-4	2862.0	6263.9	-	9.3	9.5	MS, RP, PA
8-5	2863.2	6265.5	-	9.1	9.4	MS, RP, PA
8-6	2864.7	6266.8	-	9.9	10.1	SB, JW, LM
8-7	2866.6	6268.6	-	8.2	8.5	SB, JW
8-8	2867.4	6269.9	-	7.8	8.1	LM, JW, SB, CB
8-9	2868.6	6273.1	-	7.6	7.9	SB, CB, JW
8-10	2870.9	6274.2	-	9.8	10.0	SB, JW
8-11	2873.4	6275.6	-	18.7	19.3	MS, CB, WR
8-12	2882.5	6276.7	-	9.8	10.0	MS, CB, WR
8-13-12	2884.6	6278.2	-	9.3	9.6	SB, JW, LM
8-14-12	2885.3	6279.7	-	9.5	9.9	LM, SB, CB
8-15-12	2886.6	6281.3	-	9.3	9.6	LM, JW
8-16-12	2887.8	6283.0	-	6.8	7.4	LM, CB, RP
8-17-12	2889.1	6284.0	-	9.7	10.0	SB, LM, JW
8-18-12	2890.7	6285.5	-	9.1	9.4	SB, PA, RP
8-19-12	2892.3	6287.0	-	9.2	9.5	SB, PA, RP
8-20-12	2893.6	6288.9	-	8.5	8.8	SB, LM
8-21-12	2895.2	6290.9	-	9.0	9.3	SB, LM
8-22-12	2896.5	6292.4	-	8.6	8.9	LM
8-23-12	2898.2	6294.0	-	11.1	11.4	SB, JW
8-24-12	2899.7	6295.1	-	9.5	9.8	SB, LM, JW
8-25-12	2901.1	6297.3	-	12.7	13.0	SB, DA, RB
8-26-12	2901.7	6298.7	-	22.4	22.8	SB, DA, RB
8-27-12	2901.7	6298.7	-	22.9	23.3	SB, JW
8-28-12	2901.7	6298.7	-	23.4	23.7	SB, SB
8-29-12	2902.0	6315.5	-	8.6	8.8	SB, RP
8-30-12	2903.5	6317.5	-	8.4	8.6	SB, JW
8-31-12	2904.1	6317.8	-	9.0	9.3	SB, JW

Signature

[Signature]

Date

8-31-12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

MCCLOY PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
	0005933	0005934	N/A	Wetwell	Tunnel	NAME
9-1	2904.5	6318.2	N/A	9.4	9.7	CB AR MH
9-2	2904.9	6318.9	N/A	8.8	9.1	CB AR MH
9-3	2905.2	6319.1	N/A	20.5	20.8	CB AR MH
9-4	2905.2	6324.9	-	16.0	16.3	SB, JW, LHM
9-5	2906.5	6327.8	-	9.6	10.3	SB, JW
9-6	2908.0	6329.3	-	9.7	10.5	SB, RP
9-7	2908.1	6329.4	-	2.9	7.1	SB, RP
9-8	2908.1	6329.6	-	21.7	22.1	CB SM RP
9-9	2908.1	6329.6	-	23.3	23.7	CB SM RP
9-10	2908.1	6329.7	-	24.2	24.5	SB, JW
9-11	2908.1	6351.8	-	7.5	10.4	SB, JW
9-12	0/S	6366.2	-	9.8	10.6	SB, JW
9-13	0/S	6381.1	-	10.0	10.3	SB, JW
9-14	0/S	6396.3	-	10.4	10.7	SB, JW
9-15	0/S	6400.2	-	10.2	10.7	WATUB, ROONEY, FOX
9-16	2908.1 0/S	6424.4	-	10.2	10.7	WATUB, ROONEY, FOX
9-17	0/S	6438.9	-	9.4	10.7	SB
9-18	0/S	6454.2	-	10.2	10.5	SB
9-19	0/S	6457.5	-	26.4	26.8	SB, JW
9-20	0/S	6457.5	-	27.1	27.6	SB, JW
9-21	0/S	6467.4	-	24.8	25.3	SB, JW
9-22	0/S	6489.7	-	8.8	11.1	SB, CB
9-23	0/S	6502.6	-	9.7	16.6	SB, CB
9-24	0/S	6517.3	-	9.9	11.8	SB, JW, CB
9-25	0/S	6531.1	-	10.6	12.0	SB, JW
9-26	0/S	6536.5	-	12.7	13.1	SB, JW
9-27	0/S	6541.6	-	12.4	12.8	SB, JW
9-28	0/S	6546.9	-	11.4	11.8	SB
9-29	0/S	6551.8	-	12.3	12.7	MPS, ARLAND, SPILLING
9-30	0/S	2.8	-	11.4	11.9	MPS, ARLAND, SPILLING

Signature

[Signature]

Date

October 2, 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

MCCLOY PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER #

P22319

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name **WWTP STATIONS**

PM ID Number **854**

Asset Numbers **0001602, 0005152, 0005178, 0005455**

Asset Description **WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY**

Asset Location **4 Different Locations Based on Location of Pump Station**

PM Frequency **Monthly**

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005933	0005934	N/A	Wetwell	Tunnel	NAME
10-1	0/S	7.4	N/A	11.3	11.7	SB JW
10-2	0/S	11.5	N/A	12.8	13.3	SB JW, LM
10-3	0/S	17.5	N/A	10.6	11.7	LM JW, SB
10-4	0/S	22.2	N/A	12.6	13.1	SB JW, LM
10-5	0/S	24.9	N/A	12.6	13.0	SB JW
10-6	0/S	31.7	N/A	12.6	13.1	MS, CB, KA
10-7	0/S	37.2	N/A	12.8	13.2	MS, CB, KA
10-8	0/S	38.2	N/A	18.2	18.7	S.W. SB, CB
10-9	0/S	38.2	N/A	19.6	20.0	SB JW
10-10	0/S	38.2	N/A	20.6	21.1	LM JW
10-11	0/S	38.2	N/A	21.5	21.9	LM JW
10-12	0/S	51.7	N/A	9.8	11.3	LM CB, SB
10-13	0/S	55.6	N/A	12.4	12.7	SB, SM, m H
10-14	0/S	59.9	-	8.6	11.1	SB, SM
10-15	0/S	63.7	-	12.8	13.2	SB JW
10-16	0/S	68.2	-	12.8	13.3	SB JW, LM, CB
10-17	0/S	72.6	-	10.8	11.2	SB JW, LM, CB
10-18	0/S	76.5	-	12.9	13.3	SB, CB, LM, CB
10-19	0/S	80.3	-	21.3	21.6	SB JW, LM, CB
10-20	0/S	80.3	-	22.1	22.5	SB, RP, WR
10-21	0/S	80.3	-	22.9	23.3	SB, RP, WR
10-22	0/S	80.3	-	23.6	24.0	SB, LM, CB
10-23	0/S	98.0	-	11.7	12.0	LM CB
10-24	0/S	102.6	-	11.9	12.2	SB JW, LM, CB
10-25	0/S	106.9	-	12.8	13.1	SB JW, LM, CB
10-26	0/S	111.8	-	12.7	12.9	SB JW, LM, CB
10-27	0/S	116.2	-	12.0	12.3	SB, RP, RP
10-28	0/S	120.0	-	10.5	12.0	SB, KA, RP
10-29	0/S	121.6	-	12.5	12.8	SB, LM, JW
10-30	0/S	139.3	-	17.8	18.0	SB, LM, JW
10-31	0/S	139.3	-	18.6	19.0	SB JW, LM

Signature

B. Butler

Date

Nov 5th 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

MCCLOY PUMP STATION
MONTHLY PUMP READINGS

WORK ORDER # P223263

YEAR > 2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602, 0005152, 0005178, 0005455
Asset Description	WWTP PUMP STATIONS - HAMPTON, DOUGLASADLE, UPHAMBROOK, MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	Wetwell	Tunnel	NAME
11-1	0/5	139.3	-	19.1	19.4	SB, JW
11-2	0/5	146.4	-	12.7	13.1	SB, JW
11-3	0/5	147.7	-	12.6	12.9	CB, SB, DA
11-4	0/5	149.0	-	12.3	12.7	CB, SB, DA
11-5	0/5	156.4	-	11.7	12.0	SB, JW
11-6	0/5	151.4	-	12.5	12.8	SB, JW, LM, CB
11-7	0/5	152.7	-	11.5	11.8	SB, JW, LM, CB
11-8	0/5	153.8	-	12.0	12.3	SB, LM, CB
11-9	0/5	154.9	-	12.2	12.5	SB, SW
10	0/5	156.0	-	11.6	12.0	FOX, AR, SPALDING
11	0/5	157.2	-	11.3	11.7	FOX, AR, SPALDING
12	-0.1	158.5	-	12.2	12.5	LM, JW, SB, CB
13	-0.6	159.3	-	12.7	13.0	LM, JW, CB
14	0.5	160.2	-	12.8	13.1	SB, JW, LM, CB
15	1.5	160.7	-	12.5	12.9	SB, CB
16	2.0	161.6	-	12.2	12.5	LM, CB, SB
17	2.9	162.0	-	11.5	11.9	SB, SM, CB
18	3.3	162.5	-	12.6	13.0	SB, SM, CB
19	4.2	163.3	-	10.0	11.4	SB, LM, CB
20	4.6	164.1	-	12.2	12.5	SB, JW, LM, CB
21	5.0	164.5	-	12.8	13.2	SB, JW, LM
22	5.8	164.9	-	12.6	12.9	SB, SM, CB
23	6.3	165.7	-	12.4	12.7	SB, SM, CB
11/24/12	7.1	166.1	-	12.3	12.4	MS
11/25/12	7.5	166.9	-	12.2	12.4	MS
11-26	8.3	167.3	-	12.2	12.5	SB, LM, CB
11-27-12	8.8	168.0	-	12.5	12.8	LM, SB, CB
11-28	9.4	168.4	-	12.4	12.7	SB, CB
11/29/12	9.8	169.1	-	12.0	12.3	MS, LM, SB, CB
11-30	10.4	169.5	-	11.8	12.1	SB, JW, LM

Signature B. B. Kelly

Date Dec 4 12



City of Richmond
Department of Public Utilities - Wastewater Treatment Plant
NINE MINIMUM CONTROL'S REPORT

**MCCLOY PUMP STATION
MONTHLY PUMP READINGS**

WORK ORDER #

P223466

YEAR >

2012

CIRCLE THE MONTH JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

Asset PM Group Name	WWTP STATIONS
PM ID Number	854
Asset Numbers	0001602 0005152 0005178 0005455
Asset Description	WWTP PUMP STATIONS HAMPTON DOUGLASADLE UPHAMBROOK MCCLOY
Asset Location	4 Different Locations Based on Location of Pump Station
PM Frequency	Monthly

	PUMP #1	PUMP #2	PUMP #3			
DATE	0005933	0005934	N/A	Wetwell	Tunnel	NAME
12/1/12	10.6	170.4		11.8	11.5	MS, RP, MR
12/2/12	11.4	170.7		12.9	13.2	MS, RP, AR
12/3/12	12.2	171.1		12.8	13.1	SB, CB
12/4/12	12.6	171.9		12.8	13.2	SB, CB
12/5/12	13.4	172.2		12.4	12.7	SB, LM, MS
12/6/12	13.9	173.0		12.1	12.5	MS, LM, SB
12/7/12	14.7	173.4		11.7	12.0	MS, LM
12/8/12	15.1	174.2		11.5	11.8	SB, RP, DA
12/9/12	15.9	174.6		11.9	12.2	SB, H, RP
12/10/12	16.8	175.3		11.5	11.8	SB, MS, LM
12/11/12	17.2	176.1		12.7	13.0	SB, RP
12/12/12	18.1	176.9		11.6	11.9	SB, LM, MS
12/13/12	18.9	177.3		11.7	12.0	LM, MS, SB
12/14/12	19.3	178.1		11.4	11.7	SB, LM, MS
12/15/12	20.1	178.5		9.7	11.9	CB, SB, PA
12/16/12	20.7	179.6		12.8	13.1	CB, SB, PA
12/17/12	21.6	180.0		12.5	12.8	SB, LM, MS
12/18/12	22.0	180.8		12.2	12.5	LM, MS, SB
12/19/12	22.8	181.2		12.2	12.6	SB, LM, MS
12/20/12	23.2	182.0		11.6	11.9	MS, LM, SB
12-21-12	23.6	183.7		19.0	19.3	LM, MS, SB
12-22-12	23.6	183.7		19.5	19.9	SB, SM, SS
12-23-12	23.6	183.7		20.4	20.7	SB, WR, SS
12-24-12	23.6	183.7		21.2	21.6	SB, WR, SS
12-25-12	23.6	183.7		21.9	22.3	SB
12-26-12	23.6	183.7		22.3	22.4	SB, MS, MS
12-27-12	23.4	183.7		33.7	34.1	SB, LM
12-28-12	23.7	183.7		37.3	37.8	SB, LM
12-29-12	24.7	183.7		26.5	26.9	CB, SM
12-30-12	62.7	183.7		17.1	12.4	CB, SM
12-31-12	66.5	183.7		12.5	12.8	CB, SM

Signature

B. B. [Signature]

Date

12-31-12

Combined Sewer System Report for 2012

APPENDIX 4-3

Sewer Flushing, Cleaning and TV

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

YEARLY
SEWER TV/CLEANING REPORT

YEAR 2012

DATE	MONTHLY TOTAL LENGTH OF SEWER TELEVISED	MONTHLY TOTAL LENGTH OF SEWER CLEANED
January	13,079	14,130
February	25,265	23,880
March	19,639	33,806
April	17 488	28 773
May	13,964	20,648
June	15,384	15,660
July	35,962	42,574
August	17,899	25,619
September	23 568	14 902
October	29,493	25,783
November	20,954	22,782
December	18,866	21 092
YEARLY TOTAL	251,560	289,648

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH January

DATE	BLOCK	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVIEWED	CLEANED
2	816	Fay st	6	32	
3	2400	E Grace St	16x24	320	320
3	2500	E Grace St	16x24	482	482
3	1638	Rosecrest Ave	12		500
4	800	Porter St	18	294	294
4	900	Porter St	20	275	275
4	1100	Porter St	24	319	319
4	1000	Porter St	24	340	340
4	500	Overbrook Rd	30	98	98
4	2401	E Broad St	8	6	
5	900	Bainbridge Rd	12	298	298
5	800	Bainbridge Rd	15	157	157
5	300	Greenway Ave	15	235	235
5	900	Bainbridge Rd	15	294	294
5	800	Bainbridge Rd	24	137	137
5	907	GRANITE AVE	6	6	
5	218	N 32ND STREET	6	40	
5	109	BERRINGTON CT	6	43	
5	301	ROBINSON ST	6	45	
5	2309	MAPLEWOOD AVE	6	35	
6	5300	Kingsbury Rd	8	83	83
6	700	Everett St	15	36	36
6	1548	YEARDLEY DR	6	20	
6	332	GREENWAY LN	6	30	
6	15	S Lombardy st	6	14	
6	2700	Clifton Ave	8		1500
9	2500	E Grace St	16x24	160	160
9	3000	Stuart Ave	12	261	261
9	700	Everett St	15	38	38
9	1104	Eggleston St	12		600
10	800	Stockton St	15	81	81
10	520 1/2	S LAUREL ST	6	30	
10	7401	Hill dr	6	2	
11	200	E 4th St	12	315	315
11	2300	Lakeview Ave	15	422	422
11	2200	Lakeview Ave	18	370	370
11	1900	Ruffin rd	12		800
12	800	Everett St	12	68	68
12	800	Everett St	12	86	86
12	1900	Dock St @ Floodwall	63	163	
12	4410	FITZHUGH AVE	6	30	
12	5200	Queenbury Rd	8	283	
12	1410	N 28th St	6	12	
13	7500	Potter Ct	8	236	236
13	3900	W Franklin St	8	373	373
13	3100	Chellows Rd	8	384	384
13	800	Stockton St	12	127	127
13	3900	OLD HOPKINS RD	6	40	
13	2832	WEYMOUTH DR	6	65	
13	1200	JUNIPER ST	6	40	
14	3606	GREER AVE	6	40	
15	4521	W SEMINARY AVE	6	20	
16	#2	CANTERBURY RD	6	40	
16	3216	EDGEWOOD AVE	6	20	
17	4200	RUCKER CT	6	30	
17	3336	Marks Rd	8	116	
17	2841	Hathaway Rd	8	238	
18	4500	Kensington Ave	8	302	302
18	1003	W Broad St	12	249	
19	1600	E Marshall St	60	379	
19	2000	E Marshall St	60	170	
19	2000	E Marshall St	60	181	
19	501	Henn rd	6	69	
20	5232	SHERIDAN LN	6	35	
22	3917	Grove Ave	6	4	
22	4709	W Franklin St	6	22	
22	4618	W Franklin St	6	37	

23	600	Stockton St	18	121	121
23	2822	DUNN AVE	6	40	
23	1800	Hampton St pump Station	10		110
23	4100	Old Brook Rd @ Old Brook Ct	4		80
24	217	W GRACE ST	6	70	
24	1500	Yeardley Dr	8		592
25	200	E 1st St	15	386	386
25	2719	CHAMBERLAYNE AVE	6	80	
25	2511	E BROAD ST	6	30	
25	1108	Mt Erin St	8	207	
26	4600	W Franklin St	21	301	301
26	4700	W Franklin St	21	303	303
27	2800	E Franklin St	16x24	194	194
27	1329	W Main st	24 x 36	381	
27	10331	Glendye rd	6	32	
30	3000	Libbre Terrace	12	96	96
30	3300	Park Ave	18	209	209
30	3300	Park Ave	18	244	244
30	3300	Park Ave	24	250	250
30	2700	E Franklin St	16x24	327	327
30	3819	Dylisdale Rd	6	32	
30	3403	MAPLEWOOD AVE	16		400
31	3000	Monument Ave	20	280	280
31	3200	Franklin St	24	246	246
31	3403	MAPLEWOOD AVE	6	30	
31	2837	Dorset Rd	6	43	
				13079	14130

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH February

DATE	BLOOCK	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVIEWED	CLEANED
1	500	Schutte St	12	248	248
1	900	Herbert St	12	437	437
1	3000	Monument Av	20	237	237
1	3300	Park Av	15	250	250
1	3000	Monument	20	240	240
1	3300	Park	15	252	252
2	3207	IDLEWOOD AVE	6	40	
2	3200	Park Av	18	256	256
2	3200	Park Ave	18	255	255
2	600	Roseneath Road	15	195	195
3	3955	FAUQUIRE AVE	6	10	
3	2500	Dana St	12	490	490
3	Cso 16	Riverside & W 42 St	10		30
3	2503	W Grace St	6		120
3	600	Cleveland St	18	248	248
3	600	Cleveland St	18	253	253
4	631	Westover blvd	8		100
6	11th	Decatur St	6	18	
6	3500	Floyd St	24	158	158
6	600	N Belmont St	12	38	38
6	700	Colonial	12	54	54
6	2800	Park Av	12	54	54
6	600	Cleveland St	20	253	253
6	600	Cleveland St	20	205	205
6	600	Cleveland St	20	445	445
6	600	N Belmont Ave	20	38	38
7	2500	E Grace St	16x24	70	70
7	900	Oliver Hill Way	8	138	138
7	3300	W Franklin St	12	471	471
8	900	Franklin St	8	43	
8	3620	SHORE DR	6	30	
8	2223	W CARY ST	6	25	
8	2800	Kensington Av	12	395	395
8	3300	W Franklin St	12	471	471
8	2800	Kensington Ave	12	394	394
9	2009	Rose Ave	6	23	
9	6200	Glyndon Ln	8	50	50
9	10	Lombardy Ave	12	79	79
9	5551	RIVERSIDE DR	6	158	
9	3100	Park Av	54	481	481
10	3000	Kensington Av	12	365	365
10	2900	Kensington Av	15	322	322
10	300	Kensington Ave	12	404	404
10	2900	Kensington Ave	15	384	384
11	614	Hazelhurst Ave	6	49	
11	3506	Missouri Ave	6	23	
12	6419	Elkhart Rd	6	30	
13	2009	Rose Ave	6	23	
13	2933	BROOK RD	6	50	
13	3510	BRIEL ST	6	30	
13	2210	Greycourt	8		100
13	3100	Kensington Ave	12	389	389
13	3100	Kensington Ave	12	376	376
13	3400	W Franklin St	15	284	284
13	3500	Kensington Ave	15	44	44
13	3500	Stuart Ave	15	40	40
13	3500	Stuart Ave	15	65	65
13	400	N Thompson St	15	49	49
13	400	N Thompson St	15	63	63
13	400	N Thompson St	15	41	41
14	2506	Stuart Ave	6	39	
14	1601	Sherwood Ave	6	61	
14	400	Exeter Rd	15	306	306
14	6707	HANOVER AVE	6	30	
14	3200	Kensington Ave	12	136	136
14	3300	Kensington Ave	12	496	496
14	3300	Kensington Ave	12	25	25

14	3400	Hanover Ave	15	376	376
15	1802	Gordon Ave	8		100
15	3500	Kensington Ave	12	162	162
15	3300	Stuart Ave	12	488	488
15	3300	Stuart Ave	12	29	29
15	400	N Sheppard St	12	394	394
16	1300	Hermitage Rd	132	35	
16	1000	W Grace St	16x24	47	47
16	3606	GREER AVE	6	20	
16	300	N Sheppard St	12	75	75
16	3000	Hanover Ave	12	364	364
16	3100	Hanover Ave	12	397	397
16	3500	Hanover Ave	24	374	374
17	3700	Meridian Ave	12	744	744
17	200	Tilden St	12	284	284
17	3200	Hanover Ave	18	449	449
17	3200	Hanover Ave	18	31	31
17	3300	Hanover Ave	18	28	28
20	1710	WESTWOOD AVE	6	30	
20	3500	Hanover Ave	12	45	45
20	3400	Hanover St	18	132	132
20	3400	Hanover Ave	18	427	427
20	3400	Hanover Ave	18	26	26
21	6707	Hanover Ave	6	26	
21	905	HILL TOP DR	6	30	
21	2000	LAKEVIEW AVE	6	80	
21	3300	Hanover Ave	18	503	503
22	1317	McDonough St	6	143	
22	2400	Haden Ave	12	652	652
22	2500	Haden Ave	12	449	449
22	3021	BARTON AVE	6	60	
22	3400	Stuart Ave	12	41	41
22	3500	Stuart Ave	15	332	332
23	3000	Franklin St	20	335	
23	6707	HANOVER AVE	6	34	
23	6707	Hanover Ave	6		32
23	2508	Barton Ave	8		100
23	3400	Stuart Ave	18	293	293
24	2800	Ponyntelle Rd	8	209	209
24	2400	Flint St	12	326	326
24	2400	Lynhaven Ave	12	733	733
24	2500	Lambert Ave	12	795	795
24	303	SOMERSET AVE	6	15	
24	3205	GARRETT ST	6	56	
24	600	N Nansemond St	24	336	336
24	3500	Stuart Ave	24	235	235
25	1704	Dinwiddie Ave	6	16	
27	2207	Hildreth St	6	11	
27	2308	Barton Ave	8	154	
27	906	W LADIES MILE RD	6	35	
27	800	Stockton St	12	125	125
27	800	Stockton St	15	80	80
27	900	Everett St	12	88	88
27	900	Everett St	12	69	69
27	700	Everett St	15	37	37
27	400	Stockton St	12	313	313
28	300	Gilmer Ave	16x24	167	167
28	511	N 29TH ST	6	5	
28	500	N Sheppard St	12	15	15
28	500	N Sheppard St	12	127	127
28	500	N Sheppard St	12	123	123
28	2900	Patterson Ave	15	148	148
29	3	N 18th	6	70	
29	3315	CEDAR GROVE RD	6	130	
29	2900	Patterson Ave	12	204	204
29	500	N Sheppard St	12	120	120
29	3400	Kensington Ave	18	567	567
29	500	N Sheppard St	20	395	395
				25265	23880

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH March

DATE	BLOCK	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVIEWED	CLEANED
1	2319	E BROAD ST	6	80	
1	3506	2ND AVE	6	70	
1	300	Henn St	12	137	137
1	700	Colonial St	12	136	136
1	700	N Colonial Ave	12	229	229
1	700	N Colonial Ave	12	229	229
1	700	Colonial St	12	136	136
1	1301	W Broad St odd alley	18	371	371
1	300	N Rowland St	48	428	428
1	700	N Harrison St	66	205	205
2	4619	Hanover Ave	6	17	
2	124	Lipscomb St	6	29	
2	2900	Park Ave	12	41	41
2	600	N Sheppard St	12	28	28
2	2900	Park Ave	12	41	41
2	2000	W Leigh St	36	154	154
2	200	N Rowland St	45	452	452
3	2423	Park Ave	6	75	
4	404	W 33rd St	6	57	
4	3112	N 2nd Ave	6	75	
5	4225	MARTHA LN	6	5	
6	2000	W Broad St in alley	20	312	312
6	1800	W Leigh St	30	261	261
6	2300	Stuart Ave	24 x 36	391	391
7	2009	ROSE AVE	6	30	
7	634	HOLLY ST	6	30	
7	3121	W MARSHALL ST	6	75	
7	4100	Cambridge Rd	6		40
7	6100	Patterson Ave	8	179	179
7	400	Henn Rd	8	438	438
7	400	N Sheppard	12	328	328
7	400	N Sheppard St	12	39	39
7	400	N Sheppard St	12	15	15
7	2900	Kensington Ave	12	19	19
7	400	N Sheppard St	12	13	13
7	2900	Park Ave	12	361	361
7	400	N Sheppard St	12	328	328
7	400	N Sheppard St	12	39	39
7	400	N Sheppard St	12	15	15
7	2900	Kensington Ave	12	19	19
7	400	N Sheppard St	12	13	13
7	2900	Park Ave	12	361	361
7	601	Somerset Ave (Alley South of Fergusson Rd and East of Somerset Ave)	18	215	215
7	5404	Kingsbury Rd	24	225	225
8	2800	Cofer Rd	6	144	
8	2921	Noble Ave	6	50	
8	12	S HARRISON ST	6	100	
8	4100	Cambridge Rd	6		40
8	6800	Sequoia	8		274
8	6100	Patterson Ave	8	227	227
8	1600	W Grace St	15	286	286
8	2301	Floyd Ave	18		220
9	3120	W Marshall st	6		25
9	5500	Bewdley Rd	8	340	340
12	2405	Cedar St	6	8	
12	3606	MARYLAND AVE	6	25	
12	2900	Roger St	6		160
12	5700	Patterson Ave	8		1200
12	6000	FERGUSSON RD	8		240
12	3500	2nd Ave	8	136	136
12	4200	Martha Ln	8	293	293
12	1306	W Broad St	60	204	204
12	1200	W Broad St	60	248	248
12	2020	W Broad St (Allison St)	60	374	374
13	3108	BARTON AVE	6	30	
13	3517	Walmsley Blvd	6		80
13	2009	ROSE AVE	6		40

13	500	Granite Ave	8		500
13	3118	Cofer Rd	8		340
13	3200	Cofer Rd	8		540
13	6000	Fergusson Rd	8	526	526
13	300	Granite Ave	12		600
13	600	Granite Ave	12		600
13	3200	Moody St	15	163	163
14	1601	Sherwood Ave	6	99	
14	1406	BLAIR ST	6	25	
14	2311	Whitcomb St	6		6
14	300	Granite Ave	8		500
14	300	Somerset Ave	8	304	304
14	5700	Patterson Ave	12		400
14	1600	Grace St	12		1200
14	10	S Harrison St	12	183	183
14	500	N 29th St	12	271	271
14	3200	Garrett St	24	315	315
14	400	N Meadow St	48	178	178
15	3340	Cutshaw Ave	6	4	
15	1003	W 47TH ST	6	98	
15	3100	W Marshall St	12	73	73
16	1220	APPERSON ST	6	40	
16	1429	ROGER ST	6	30	
16	1000	Worthington Rd	8		1200
16	1000	Barfen Rd	8		600
16	600	W 26th St	12	17	17
16	5300	Kingsbury Rd	24	174	174
17	600	Hull St	15	347	347
19	6823	MIDLOTHIAN TRPK	4		300
19	3500	2nd Ave	8	192	192
19	3001	Nine Mile rd	12		1200
19	10	E 4th St	12	324	324
19	519	Libbie Ave	24	465	465
19	700	W 28th St	54	470	470
19	700	W 28th St	54	284	284
20	1731	Whitehead Rd	6	93	
20	4105	HILLCREST RD	6	60	
20	5209	BONDSOR LN	6	65	
20	2000	Barton Ave alley	8	40	40
20	6500	Stuart Ave	8	155	155
20	5810	Kensington Ave	8	393	393
20	3000	Creighton rd	10		1100
20	300	Everett St	12	156	156
20	800	Everett St	18	81	81
20	421	Granite Ave (On Hampton Court Terrace Property)	24	182	182
20	421	Granite Ave (On Hampton Court Terrace Property)	24	212	212
20	5300	North of Kingsbury Rd	24	161	161
20	5807	Guthne Ave	24	352	352
21	4210	Augusta Ave	6	43	
21	2869	BROAD ROCK BLVD	6	65	
21	6500	Stuart Ave	8	127	127
21	2000	Barton Ave	12	105	105
22	5806	Guthne Ave	6	39	
22	2414	Lancelot Ave	6	80	
22	4401	CROATAN RD	6	98	
22	301	Mechincville Tpk	8		808
22	1900	3rd Ave alley	8	55	55
22	2300	Maplewood Ave	48	386	386
23	1406	BLAIR ST	6	80	
23	2009	Rose Ave	6		350
23	5806	Guthne Ave	8		800
23	3100	Grayland Ave	36	541	541
23	3100	Grayland Ave	48	208	208
26	3505	McGuire Dr	6	56	
26	4022	Dorset Rd	6	40	
26	#2	PLUM ST	6	15	
26	700	Faye ave	8		250
26	1000	Faye ave	8		300
26	500	Faye ave	8		200
26	900	Faye ave	8		350
26	6200	Glyndon Ln	8	167	167
26	4300	Southaven Rd	8	192	192
26	5200	Tilford	10		500
26	600	Byswick	10		500
27	3100	Sunset Ave	8	494	494
27	2200	Allison St	20	322	322
28	5806	Guthne Ave	6		32
28	2300	Hawthorne Ave	8		720

28	500	Granite Ave	8	301	301
28	3000	Park Ave	20	213	213
29	718	N 35th St	6	46	
29	900	N Hamilton St	18	140	140
29	3100	Grayland Ave	48	55	55
30	1741	WHITEHEAD RD	6	40	
31	715	N35th	6	32	
				19639	33806

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH April

DATE	Block or address	LOCATION	PIPE SIZE	TELEVISED	CLEANED
1	2200	W Grace St	15	130	130
2	4619	Hanover Ave	6	17	
2	124	Lipscomb St	6	29	
2	1003	W GRACE ST	6	25	
2	4300 to 4500	Caslewood Rd	12		1200
2	4400	Jefferson Davis	12		500
2	1003	W GRACE ST	6		35
3	2423	Park Ave	6	75	
3	2053	W Broad St	6	40	
3	4500	Jeff Davis Hwy Even alley	10		500
3	2600 to 2700	of Berry Rd	10		1600
4	404	W 33rd St	6	57	
4	3112	N 2nd Ave	6	75	
4	506	CHEATWOOD	6	30	
4	2600	Dale Ave	10		1200
5	2212	Hildreth	8		1200
5	500	Cheatwood Ave	8		300
5	4401	CROATAN RD	6		40
5	2500	Lansdale Rd	8	198	198
5	4700	W Franklin St	42	602	
8	2800	Cofer Rd	6	144	
9	1731	WHITEHEAD RD	6	100	
9	2508	GENEVA CT	6	2	
9	4808	CHAMBERLAYNE AVE	6	92	
9	3800	Dylisdale Ave	8		584
9	3800	Grandel Dr	8		850
9	3200	Terminal Blvd	8		600
9	3200	Irvington	8		300
9	3300	Irvington	8		600
9	3400	Irvington	8		600
9	200	Ladies Mile Rd	8	159	159
10	1900	Stuart Ave	6	124	
10	3100	Hill St	8		800
10	2800	Willemington Ave	8		272
10	1700-1800	ROSECREST AVE	12		100
10	4100	CAMBRIDGE RD	6		35
10	3200	Idlewood Ave	54	36	
11	6315	ELKHARDT LN	6	35	
11	4000	Bridgeton Rd	8		600
11	4000	Stowe Dr	8		800
11	3518	HOPKINS RD	8		72
11	1627	ELMDALE AVE	12		100
11	700	E 2nd St	18	385	385
12	2405	Cedar St	6	8	
12	2309	MAPLEWOOD AVE	6	30	
12	2200	Shields Lake Dr	24	18	18
12	100	N 29th St	24	445	445
12	900	Spotswood Rd	27	357	357
12	900	Spotswood Rd	36	141	141
12	3000	W Grace St alley	42	306	
13	300	E 6th St	15	382	382
13	300	E 6th St	15	27	27
14	1601	Sherwood Ave	6	99	
15	3340	Cutshaw Ave	6	4	
16	37	LABROOK DR	6	188	
16	1719	BLAIR ST	6	88	
16	10	E 3rd St	24	372	372
17	3911	FAUQUIER AVE	6	75	

17	2900	Ketrae st	8		450
17	3100	Ketrae st	8		450
17	4100	Aracoma st	6		600
17	800	Decatur St	15	82	82
17	900	Blanton Ave	18	357	357
17	900	Blanton Ave	18	340	340
17	1000	Blanton Ave	18	36	36
17	1000	Blanton Ave	18	33	33
17	1000	Blanton Ave	18	67	67
17	1000	Blanton Ave	18	42	42
17	1000	Blanton Ave	21	333	333
17	1000	Blanton Ave	30	40	40
17	1300	Exchange Alley	36	74	74
17	3000	N 3rd St	54	55	
18	27	E 2ND STREET	6	34	
18	211	E BROAD ST	6	12	
18	5800	Southern pine ct	8		150
18	5913	Patterson Ave	8		250
18	5972	Cherokee Rd	8		200
18	2900	Norfolk St	12	12	12
19	211	W Broad St	6	5	
19	1401	Yearly RD	8		584
19	1500	Southern pine Dr	8		290
19	1200	Garber St	8		300
19	1100	Scott st	8		460
19	800	Maple Ave	8	177	177
19	800	Decatur St	12	116	116
19	800	Decatur St	12	102	102
19	1000	Blanton Ave	18	193	193
20	1731	Whitehead Rd	6	93	
20	4021	CLINTON AVE	6	58	
20	1051	BOROUGHBRIDGE RD	6	3	
20	600	Warwickvillage Dr	8		290
20	600	Warwickvillage Ct	8		150
20	6000	Patterson Ave	8	227	227
20	1400	Melton St	8	259	259
21	4210	Augusta Ave	6	43	
22	5806	Guthrie Ave	6	39	
22	2414	Lancelot Ave	6	80	
23	2900	RIVERSIDE DR	6	120	
23	700	Blanton Ave	12	742	742
23	500	Tredegar Rd	18	760	
23	300	Tredegar Rd	36	1300	
23	300	Tredegar Rd	42	578	
24	5218	LIMESTONE DR	6	35	
24	1006	E 17TH STREET	6	30	
24	6406	WESTCHESTER CIR	6	120	
24	2600	Harold Ave	15	109	109
24	400	Tredegar Rd	18	320	
24	300	N 6th St	18	22	22
24	400	Tredegar Rd	36	585	
24	400	E Grace St	36	368	368
24	400	Tredegar Rd	42	300	
24	1600	Byrd St	42	540	
25	3922	W FRANKLIN ST	6	32	
25	2317	HALIFAX AVE	6	30	
25	2400	Yorktown	12		370
25	3000	Columbia & Lynhaven	8		300
25	2300	Yorktown	12		320
25	6406	Westchester cncl	8		210
25	3910	W Franklin St	8		312
25	100	E Canal St	21	155	155
25	100	E Canal St	21	127	127
25	300	N Bank Trl	42	1614	
26	3117	CHESCO RD	6	40	
26	37	LABROOK DR	6	40	
26	2500	Columbia St	12		370
26	2411	Jefferson Davis	12		375
26	400	N Nansemond St	12	72	72
26	3500	Sturat Ave	15	134	134
27	37	LABROOK DR	8		150
27	0	Labrook Dr	8	23	23
27	1900	W Franklin St	8	6	6
27	900	Kent Rd	8	378	378
27	500	Hull St	12	314	314
30	2927	HAWTHORNE AVE	6	120	

30	3	Robin Rd	8		318
30	6	Robin Rd	8		495
30	900	Hilltop St	10		270
30	1900	W Franklin St	8	667	667
				17488	28773

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH May

DATE	BLOCK #	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVISED	CLEANED
1	3931	RUSK AVE	6	30	
1	3000	CULVER RD	6	35	
1	3028	LAMB AVE	6	30	
1	900	DECATURE ST	6	40	
1	900	McDONOUGH ST	6	35	
1	3028	LAMB AVE	8		100
1	902	DECATUR ST	6		30
1	4100	Midlothian	12		810
1	0	N 1st St	8	4	4
1	3600	Chamberlayne Ave	18	525	525
2	3931	RUSK AVE	8	45	
2	728	E GLADSTONE AVE	6	10	
2	3500	BONMARK DR	8		100
2	Lamb	E Brookland Park	6		40
2	0	S 1st St	15	398	398
2	0	S 2nd St	20x30	359	359
3	3000	Lamb Ave	8		60
3	2800	Blendwel Rd	8	67	67
3	600	Henn Rd	8	78	78
4	3900	W Franklin St	8	284	284
4	1400	National St	8	147	147
4	3600	Bonmark Dr	8	198	198
7	3619	ENSLOW AVE	6	40	
7	1512	MECHANICSVILLE TPKE	6	96	
7	1802	GREENVILLE AVE	6	30	
7	3600	BIRDWOOD RD	6	40	
7	3300	COFER RD	8		100
7	1700	Blair St	12	383	383
7	1600	Altamont Ave	12	40	40
8	527	N 33RD STREET	6	25	
8	4401	Wythe Ave	6	90	
8	2800	Hanes St alley	8	296	296
8	3000	Greyland Ave	12	458	458
8	200	N 9th St	24x24	24	24
9	305	ROANOKE ST	6	40	
9	4707	GRANDWAY RD	6	10	
9	318	Libbie Ave	8		430
9	500	Blk Pine Crest	10		584
9	1000	Forestview ave	8		270
9	900	Forestview ave	10		270
9	3431	Scottview	8		600
9	3000	Culver Rd	8	318	318
9	1500	Bangle Dr	8	350	350
9	100	N 28th St	12	76	76
11	3359	Longview Dr	12		400
11	7009	Riverview Dr	6		430
14	2909	3RD AVE	6	93	
14	7009	Riverview Dr	8		300
14		Riverview Dr & Longview	8		310
14	800	Forestview ave	8		430
14	1100	Westminister St alley	10	61	61
14	1000	Westminister St alley	10	62	62
14	600	N Lombardy St	30x45	89	89
15	4810	GOVERNMENT RD	6	32	
16	600	Hull St	10	27	27
16	10	East 6th St	10	30	30
16	500	Tuckahoe Blvd	8	222	222
16	400	Tuckahoe Blvd	8	208	208
16	400	Tuckahoe Blvd	8	100	100
16	600	Idlewood Ave	16x24	143	143
17	100	Hull St	36	70	70
17	100	Hull St	36	58	58
17	100	Hull St	36	177	177
17	10	E 1st St	36	357	357
17	100	E 1st St	36	350	350
17	100	E 1st St	36	40	40
17	500	E 5th St	15	146	146

17	500	E 5th St	15	214	214
17	300	E 5th St	15	27	27
17	2207	W MAIN ST	6	56	
17	1125	Grove Ave	6	80	
17	3500	Delano St	8	226	226
18	500	Pinecrest Ave	10		439
18	3600	Beatlie St	8	187	187
18	5900	Forest Hill Ave	10	350	350
18	0	N 1st St	12	198	198
19	1317	McDonough St	6	22	
19	400	Pinecrest Ave	10		430
21	518	W CLAY ST	6	52	
21	307	W ROBERTS ST	6	40	
21	2900	North Ave	8		230
21	5500	Powell Rd	8		439
21	5739	Berrywood	8		300
21	5700	Berrywood	8		150
21	700	Freeman Rd	12	460	460
21	600	Freeman Rd	12	229	229
21	700	S nanesmond St	12	258	258
21	700	S nanesmond St	15	286	286
22	2100	Kimrod Rd	8		350
22	2100	Kimrod Rd	8		320
22	6400	Roselawn Rd	8	10	10
22	1800	Everett St	10	277	277
23	5035	Forest Hill Ave	6	74	
23	6400	Roselawn Rd	8	62	62
24	300	Stockton St	27	281	281
24	820	LINCOLN AVE	6	22	
24	1818	Floyd Ave	6	57	
24	630	Byswick Lane	6	32	
24		Floodwall Gate 12	60	354	
24	900	N 26th St	16x24	39	39
24	0	N 4th St	24x30	388	388
25	1139	Sumpter st	6	25	
25		Floodwall Gate 13	48	18	
25		Floodwall Gate 7 and Gate 8	120	285	
28	1200	N 34th St	18	233	233
29	100	CANTERBURY	6	40	
29	105	Overbrook Rd	6	9	
29	100	Canterbury Rd	6	20	
29	1118	HOLISTER	8		10
29	1800	Harwood St	12	444	444
29		Floodwall Gate 10	24	107	
30	3216	O STREET	6	35	
30	1405	Minefee St	6	38	
30	2900	W Cary St	12	262	262
30	1100	Sumpter st	12	230	230
30	400	E Grace St	36	490	490
30		Floodwall Gate 2	120	1	
31	3203	E Marshall St	12		840
31	1900	N 29th St	12	278	278
31	2900	W Cary St	12	302	302
				13964	20648

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH June

DATE	BLOCK #	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVISED	CLEANED
1	3200	E Marshall st	12	234	
1	435	Lasalle Dr	6	31	
1	5035	FOREST HILL AVE	6	80	
1	4100	Castlewood Rd	8	70	70
4	310	N 33rd st	8	182	
4	816	Bedrock lane	6	23	
4	210	E 13TH STREET	6	32	
4	722	ARNOLD AVE	6	32	
5	913	W Grace st	8		300
5	2300	E CARY ST	12		200
5	3319	Grove Ave	6	10	
5	7509	Tanglewood Rd	6	62	
5	913	W Grace St	8	38	
5	2200	Parkwood Ave	12	133	133
5	4100	Castlewood Rd	12	754	754
5	1400	Willis St	12	368	368
6	3200	E Marshall St	12		342
6	1900	Kimrod Rd	8		355
6	5700	Germain Rd	8		350
6	6400	Glyndon Ln	8	513	513
6	400	Henn Rd	8	127	127
6	4500	Monument Ave	8	517	517
6	900	Faye St	36	380	380
6	1300	Exchange Alley	36	80	
7	100	Decatur St	43	360	360
7	500	W 29th St	48	528	
11	1000	W Grace st	6		6
11	4623	Prince George Rd	12		251
11	306	Overbrook RD	6	61	
11	5000	Cary Street Rd	8	28	28
11	1600	Clarborne Ave	18	110	110
11	300	Stockton St	30	25	25
11	1000	Westmoreland St	30	34	34
11	1000	Westmoreland St	30	338	338
12	1800	Hull St	8	1	1
12	1900	Hull St	8	185	185
12	8600	Chippenhams Rd	18	164	164
13	1818	Floyd Ave	6	30	
13	4307	JEFF DAVIS HWY	6	21	
13	4000	Monument Ave	27	860	860
13	3900	Monument Ave	27	296	296
14	6427	GLYNDON LN	8		500
14	1010	N BELMONT AVE	6	33	
14	5000	Evelyn Byrd Rd	8	144	144
14	3800	Castlewood Rd	12	80	80
14	2600	Parkwood Ave	12	81	81
14	2000	Boston Ave	12	385	385
15	2945	Scarsborough Dr	6	28	
15	3104	Noble Ave	6	66	
15	5000	Evelyn Byrd Rd	8	156	156
15	900	Faye St	15	118	118
15	4300	Monument Ave	27	539	539
18	3108	Dover Rd	6		60
18	3630	McGuier Dr	6		25
18	2311	WHITCOMB ST	12		166
18	1005	GREENWAY LN	6	48	
18	1100	Myrtle St	12	166	166
18	3200	Grove Ave	12	45	45
19	4000	Old Brook rd	6		279
19	2600	Q st	12		600
19	1500	Willis St	12	6	
19	3000	Decatur St	63	502	
20	5300	Limestone Rd	8		400
20	5406	Limestone Rd	8		460
20	1013	BRADLEY LN	6	65	
20	5000	Cary Street Rd	36	365	365
21	14th	Mc Donough st	6	70	

21	1319	Mc Donough st	6	40	
21	3227	DOUGLASDALE RD	6	65	
21	701	W 27TH STREET	6	10	
21	8600	Chippenham Rd	18	164	164
21	100	Decatur St	44	29	29
22	2001	Boston Ave	12	378	
22	1914	Boston Ave	12	264	
22	2839	Westgate dr	6	26	
22	3447	NORTHVIEW PL	6	60	
22	300	Stockton St	27	282	282
22	4200	Monument Ave	27	461	461
25	2803	McLEOD RD	6	38	
25	1610	ROGER ST	6	32	
25	1301	GRAYLAND AVE	6	35	
27	311	DUNDEE AVE	8		200
27	5500	Limestone Dr	8	458	
27	1601	Sherwood dr	6	4	
27	5600	Limestone Dr	8	560	
27	5201/2	S laurel st	6	33	
27	405	N 23rd	6	3	
27	1600	Clairborne Ave	18	192	192
27	4400	Monument Ave	27	480	480
28	1601	Sherwood dr	6	60	
28	3501	Delano st	8	53	
28	405	N 23RD ST	6	100	
28	400	Stockton St	24	289	289
28	400	Stockton St	24	292	292
29	800	Greenridge rd	8		600
29	300	Hunt Ave	8		539
29	800	Greenridge Rd	8	164	
29	308	Hunt Ave	8	380	
29	3800	Castewood Rd	8	335	335
29	1000	Westmoreland St	8	161	161
30	108	W Marshall St	6	52	
30	1835	N 29th	12	280	
				15384	15660

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH July

DATE	BLOCK #	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVISED	CLEANED
2	2300	W Franklin St	12	52	52
2	2500	E Franklin St	12	216	216
2	1400	N 31st St	18	188	188
2	122	W 33rd St	8	293	293
2	218	2nd Ave	6	62	
3	100	N 27th St	12	12	12
3	300	Stockton Ave	30	390	390
3	1721	Hopkins Rd	6	6	
3	2009	Rose Ave	8		11
3	3002	Potter st	8		249
5	800	Lake Rd	10	70	70
5	800	Lake Rd	10	17	17
5	2200	E Franklin St	12	200	200
5	2200	E Franklin St	12	76	76
5	2200	E Franklin St	12	83	83
5	600	N Lombardy St	12	185	185
5	9151	James River Watch Rd	6	27	
6	600	Strawberry St	12	125	125
6	600	Strawberry St	12	75	75
6	600	Strawberry St	12	46	46
6	4609	BROMLEY LN	6	89	
9	1500	Jacquelin St	12	259	259
9	1300	Grayland St	18	408	408
9	1300	Grayland St	18	169	169
9	300	E Byrd St	18	322	322
9	1615	Brook Rd	15	406	406
9	1409	Linmore	8		50
9	1615	Brook rd	8		512
9	5100	Hatcher	8		20
10	500	S Cherry St	12	364	364
10	500	S Laurel St	20 x 30	259	259
10	800	Spring St	20 x 30	148	148
10	700	Navy Hill Dr	24x36	182	182
10	3213	Park Ave	15	208	208
10	1700	E MARSHALL ST	6	30	
10	4	Banbury Ave	8		65
11	300	S Cherry St odd alley	12	405	405
11	800	Spring St	15	190	190
11	2200	Gilbert St	15	56	56
11	3200	Park Ave, alley	15	247	247
11	2100	Lakeview Ave	18	174	174
11	700	W 24th St	15	349	349
11	3200	Semmes Ave	10	30	30
11	1832	Alaska dr	8		595
11	3219	Semmes ave	8		169
11	700	W 24th	8		69
12	3600	Noble Ave	8	116	116
12	800	Albemarle St	12	161	161
12	4700	W Franklin St	21	301	301
12	4700	W Franklin St	21	300	300
12	4800	W Franklin St	21	343	343
12	4800	W Franklin St	21	330	330
12	600	S Pine St	16 x 24	216	216
12	300	S Cherry St	20 x 30	270	270
12	700	Holly St	20 x 30	192	192
12	1400	Brander Rd, Pump Sta Gate #6	60	366	366
12	201	Wakefield Rd	6	73	
12	1107	W CLAY ST	6	24	
12	400	Commerce	6		25
13	4300	Grove Ave	8	298	298
13	200	Woodlawn Rd	8	239	239
13	1400	Lakeview Ave	12	284	284
13	1400	Blair St	12	373	373
13	600	S Pine St	16 x 24	275	275
13	800	Holly St	30	226	226
13	800	Holly St	36	128	128
13	1926	Elmsmere Ave	15	147	147

13	1221	Admiral St	6		50
13	1412	N 23rd st	6		15
16	1200	Lakeview Ave	16 x 24	200	200
16	1200	Lakeview Ave	16 x 24	253	253
16	400	S Pine St	16 x 24	238	238
16	1600	Brook Rd	24	453	453
16	700	E Commerce	54	332	
16	3507	W CARY ST	12		200
17	1200	Grayland Ave	18	408	408
17	1200	Grayland Ave	16 x 24	48	48
17	600	S Laurel St	20 x 30	253	253
17	600	S Laurel St	20 x 30	258	258
17	900	Randolph St	54 x 54	312	312
17	100	Canterbury Rd	8	17	
17	3124	Maplewood Ave	6	31	
17	1813	CLAIBORNE ST	6	30	
18	400	Hull St	10	25	25
18	400	Hull St	10	26	26
18	6300	Stuart Ave	12	238	238
18	300	Hull St	20	260	260
18	1400	Floyd Ave	16 x 24	159	159
18	1400	Floyd Ave	16 x 24	213	213
18	4300	Monument Ave	36	4400	4400
18	4300	Monument Ave	36	441	441
18	4300	Monument Ave	36	440	440
18	4300	Monument Ave	36	441	441
18	6400	Stuart Ave	8	234	234
18	6400	Stuart ave	8		240
18	619	Brookland park	12		540
18	1553	YEARDLEY DR	8		500
19	4300	Monument Ave	8	295	295
19	10	E 2nd St	18	202	202
19	1200	W 48th St	18	381	381
19	3013	Hawthorne Ave	6	110	
20	4400	Grove Ave	8	341	341
20	4400	Grove Ave	8	72	72
20	4400	Grove Ave	8	227	227
20	902	Decatur St	6	17	
20	2010	W Main st	6		25
20	902	Decatur st	6		20
20	3935	CHAMBERLAYNE AVE	8		300
22	701	W 24th St	6	20	
23	5500	Grove Ave	8	254	254
23	1200	Grayson St	10	163	163
23	3600	Richmond Hennco Tpk	10	337	337
23	600	Commerce Rd	18	189	189
23	3200	Monument Ave	18	111	111
23	500	S Harrison St	8	155	155
23	3300	Monument Ave	20	111	111
23	1800	W Cary St	16 x 24	139	139
23	1100	Grove Ave	16 x 24	150	150
23	1100	Grove Ave	16 x 24	169	169
23	3300	Monument Ave	24	174	174
23	5400	Hansdale rd	8		285
23	2800	McLeod rd	8		485
24	1000	Westmoreland St	8	161	161
24	900	Westmoreland St	8	43	43
24	1200	Westmoreland St	8	74	74
24	100	N Vine St	12	406	406
24	900	Westmoreland St	12	148	148
24	3400	Monument Ave	15	256	256
24	1700	Floyd Ave	18	395	395
24	1000	Westmoreland St	30	35	35
24	1000	Westmoreland St	30	338	338
24	108	E Marshall st	24X24	3	
25	1700	Grove Ave	16 x 24	198	198
25	1700	Grove Ave	16 x 24	196	196
25	3505	McGuire Dr	6	62	
25	612	LABROOK DR	6	24	
25	2213	FAIRFAX AVE	6	56	
25	3805	EXETER RD	6	104	
26	10	Strawberry St	12	408	408
26	2200	Floyd Ave	12	338	338
26	300	S 5th St	24	32	32
26	4000	Monument Ave	36	453	453
26	4100	Monument Ave	36	431	431
26	1405	Minfee St	6	27	
26	201	Roanoke st	6	57	

26	336	Albermarle Ave	8	89	89
26	2709	4TH AVE	6	15	
26	3107	Barton ave	8		502
26	1900	CEDAR ST	12		300
27	3100	Barton Ave	10	671	671
27	3900	Monument Ave	36	538	538
27	3800	Monument Ave	36	518	518
27	1210	W 48th st	8	378	378
27	3107	Barton ave	8	665	665
27	3107	Barton ave	8		450
27	1900	cedar st	12		300
28	1100	Floyd Ave	16 x 24	181	181
28	1100	Floyd Ave	16 x 24	182	182
28	1300	W Main St	24 x 36	384	384
30	4500	Monument Ave	12	332	332
30	4400	Monument Ave	12	317	317
30	600	W Franklin St	20x30	162	162
30	600	W Franklin St	20x30	82	82
30	4400	Monument Ave	27	422	422
30	4400	Monument Ave	27	58	58
30	4300	Monument Ave	27	183	183
30	4300	Monument Ave	27	356	356
30	4400	Monument Ave	36	78	78
30	4400	Monument Ave	36	24	24
30	400	S Harrison St	42	285	285
30	500	Randolph St	48 x 48	171	171
30	3112	FOREST HILL AVE	6	26	
30	2400	Royall Ave	12		574
30	2404	Summer Hill Ave	6		40
30	2500	Royall Ave	8		542
30	3120	KENYON AVE	8		300
30	813	GERMAN SCHOOL RD	8		451
31	4100	Grove Ave	8	295	295
31	4100	Grove Ave	8	288	288
31	1500	W Cary St	24 x 30	123	123
31	10	S Plum St	33	239	239
31	1000	Idlewood Ave	42	221	221
31	1003	W Grace st	6	30	
				35962	42574

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH August

DATE	BLOCK	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVISED	CLEANED
1	100	E Marshall St	24x24	5	
1	700	Maury St	54	46	
1	700	Maury St	89	283	
2	1000	Lafayette Ave	8	435	435
2	100	Lafayette Ave	8	353	353
2	1200	E Cary St	8	3	3
2	900	W Laburnum Ave	10	2	2
2	2000	Newman Rd	15	40	40
2	2000	Newman Rd	15	319	319
2	3905	W Cary St	6	66	66
5	5342	White Oak Dr	8		1515
5	1511	JACQUELINE LN	12		300
6	700	Lafayette Ave	8	112	112
6	4600	Lafayette Ave	8	128	128
6	4600	Kensington Ave alley	8	121	121
6	4609	BROMLEY LN	6	89	89
7	4600	Kensington Ave alley	8	179	179
7	4600	Kensington Ave alley	8	288	288
7	3900	Stuart Ave	8	240	240
7	4600	Leonard Pkwy	8	38	38
7	4000	Kensington Ave alley	8	52	52
7	4000	Kensington Ave - alley	8	71	71
7	5335	Snead Rd	8	634	
7	3408	Park Ave	8	218	
8	2800	Barton Ave	8	278	278
8	2700	Lambert Ave	12	492	492
8	3858	Fauquier Ave	6	93	93
9	3000	Hawthorne Ave	18	87	87
9	3000	Hawthorne Ave	18	338	338
10	3000	2nd Ave	8	57	57
10	10	W 32nd St	15	163	163
10	2405	Kensington Ave	6	60	60
10	1700	E MARSHALL ST	6	30	30
10	4626	Patterson Ave	8		200
12	1107	W CLAY ST	6	24	24
12	2700	RICH HENRICO TRPK	8		420
13	1000	Boroughbridge Rd	24	131	131
13	1000	Boroughbridge Rd	24	298	298
13	1000	Boroughbridge Rd	24	304	304
13	800	S Allen St	36	315	315
13	900	S Allen St	42	161	161
13	1100	S Allen St	42	281	281
13	1200	S Allen St	42	218	218
13	2710	E Franklin St	8	320	
13	2400	Royall Ave	8		547
14	2400	N27th St	16x24	316	
14	2400	Royall Ave	8		547
14	1900	Columbia Ave	8		410
15	600	Pensacola Ave	12	356	356
15	908	N27th St	16x24	194	
15	908	N 27th	12		470
15	2200	Cedar St	12		185
16	100	N 1st St	10	199	199
16	100	N 1st St	24	167	167
16	2300	Cedar St	16x24	204	
16	6th St	Brander St	24	90	
16	2300	Cedar St	12		223
16	3507	W CARY ST	12		200
17	4800	Patterson Ave	8	349	349
17	4700	Patterson Ave	8	80	80
17	1813	CLAIBORNE ST	6	30	30
17	2117	Miller Ave	6	53	53
18	1553	YEARLEY DR	8		500
20	300	Ladies Mile Rd	20	295	295
20	3300	Cutshaw Ave	72	589	
20	2700	McLeod RD	6		180
20	5411	Hansdale Rd	6		440

20	2800	McLeod RD	6		140
20	3935	CHAMBERLAYNE AVE	8		300
21	6400	Roselawn Rd	8	151	151
21	100	N Shields Ave alley	24	176	176
21	2322	Burton RD	12		525
22	200	Commerce Rd	18	187	187
22	1800	Claborne St	18	343	343
22	10	Banbury Rd	24	287	287
22	351	Belt Blvd	8	170	
22	351	Belt Blvd	8		585
22	351	Belt Blvd	8		60
22	400	Dinwiddie Ave	8	292	292
22	1600/1400	Wilmington Ave	12		601
23	3000	Hawthorne Ave	8	263	263
23	3000	Hawthorne Ave	8	246	246
23	2600	The Terrace	49	55	
23	1400	Wilmington Ave	12	486	
23	1600	Wilmington Ave	12	300	
23	Wilmington Ave & Lamont		8		160
24	100	Virginia St	12	1	1
24	3117	Letcher Ave	8	199	
25	3505	McGuire Dr	6	62	62
25	612	LABROOK DR	6	24	24
25	2213	FAIRFAX AVE	6	56	56
25	3805	EXETER RD	6	104	104
26	2709	4TH AVE	6	15	15
26	1900	CEDAR ST	12		300
27	100	Virginia St	12	137	137
27	100	Virginia St	12	117	117
27	1300	E Canal St	15	155	155
27	100	Virginia St	15	85	85
27	200	N 2nd St	18	381	381
27	1900	cedar st	12		300
28	4300	Monument Ave	8	92	92
28	4300	Monument Ave	8	321	321
28	1200	Westmoreland Ave	8	115	115
29	3000	Ferncliff Rd	8	88	88
29	3200	Semmes Ave	10	77	77
29	100	N 25th St	24	383	383
29	Afton Ave	Lynhaven Ave	12		586
29	1118	N 36th	12		475
30	10	N 24th St	8	1	1
30	4500	Cary Street Rd	36	375	375
30	4500	Cary Street Rd	36	274	274
30	4500	Cary Street Rd	36	357	357
30	1118	N 36th	12	70	
30	3112	FOREST HILL AVE	6	26	26
30	3500	P St	10		124
30	1118	N 36th	12		370
30	100	Matoaka St	8		475
30	3120	KENYON AVE	8		300
30	813	GERMAN SCHOOL RD	8		451
31	4400	Cary Street Rd	36	290	290
31	4400	Cary Street Rd	36	277	277
31	4300	Cary Street Rd	36	277	277
31	4300	Cary Street Rd	36	260	260
31	1003	W Grace st	6	30	30
				17 899	25 619

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH September

DATE	BLOCK	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVISED	CLEANED
4	1100	W Grace St alley	15	325	325
4	1100	W Grace St alley	18	397	397
4	1014	CRAFTON LN	6	52	
4	6722	KENSINGTON AVE	6	75	
4	1403	N20TH STREET	6	31	
4	3100	Hawthorne Ave	15		600
5	5500	Cary Street Rd	36	293	293
5	5400	Cary Street Rd	36	320	320
5	5400	Cary Street Rd	36	161	161
5	5300	Cary Street Rd	36	417	417
5	5300	Cary Street Rd	36	319	319
5	5300	Cary Street Rd	36	466	466
5	5200	Cary Street Rd	36	203	203
5	300	Tredegar St	42	574	
5	300	Tredegar St	42	449	
5	700	Maury St	54	46	
5	700	Maury St	89	283	
5	942	KINGSWAY RD	6	30	
5	100	E Main St	8		200
5	3400	Hawthorne Ave	15		569
6	1600	Wilmington Ave	12	15	15
6	1600	Wilmington Ave	12	180	180
6	1500	Wilmington Ave	12	97	97
6	1500	Wilmington Ave	12	70	70
6	3800	Fauquier Ave	12	62	62
6	200	North Bank Trail	42	619	
6	100	North Bank Trail	42	608	
6	3363	WARNER RD	6	77	
6	400	W 30TH STREET	6	25	
6	20th	Broad st	12	35	
6	w marshall	Harrison St	24	181	
7	1400	Wilmington Ave	12	152	152
7	300	North Bak Trail	42	316	
7	100	North Bank Trail	82	117	
7	1201	E MAIN STREET	6	40	
7	7	BROOK RD	6	44	
7	4001	W Franklin st	8	80	
7	3402	Hanover Ave	12	114	
8	100	Tredegar St	36	49	
8	200	Tredegar St	36	301	
8	200	Tredegar St	36	324	
8	300	Tredegar St	36	313	
8	300	Tredegar St	36	254	
8	1816	MAPLESHADE AVE	12		600
9	100	Tredegar St	36	57	
9	100	Tredegar ST	36	323	
9	200	Tredegar St	36	323	
9	200	Tredegar St	36	323	
9	100	Tredegar St	84	116	
10	2411	OAKLAND AVE	6	51	
10	1801	Mapleshade Ave	12		870
11	400	Tredegar St	36	774	
11	600	Tredegar St	36	1245	
11	400	Tredegar St	36	591	
11	39	Lexington Rd	8		230
12	300	Virginia St	36	128	
12	1200	Byrd St	36	980	
13	3800	Sunora Dr	8	180	180
13	2200	Seminary Ave	20	395	395
13	1500	Byrd St	36	66	
13	1500	Byrd St	36	160	
13	1400	Claiborne Ave	44/66	307	
13	3220	O STREET	6	31	
13	2216	HILDRETH ST	6	25	
13	2933	Brook rd	12	101	
13	2900	Brook Rd	10		222

14	100	N Sheppard St	18	160	160
14	1400	Byrd ST	36	21	
14	300	Virginia St	36	246	
14	300	Virginia ST	36	215	
14	6313	GLYNDON LN	8		600
17	100	N Sheppard St	18	229	229
17	500	W 29th St	48	256	
17	2900	Springhill Ave	48	263	
17	1523	GROVE AVE	6	85	
17	4121	Dorset Ct	8	226	
17	4100	Dorset Rd	8		579
17	E 34th	Midlotham Tpk	8		475
18	10	Essex St	6	1	
18	600	Tredegar ST	18	212	
18	600	Tredegar St	18	235	
18	600	Tredegar St	18	300	
18	3300	Idlewood St	24	299	299
18	3300	Idlewood St	24	218	218
18	9	W CARY ST	6	10	
18	1827	Nethwood rd	8	590	
18	1300	Mechanicville	10		8
18	3400	Montross Ave	12		12
19	500	Tredegar St	30	303	
19	500	Tredegar St	30	21	
19	3200	Grayland Ave	42	257	257
19	5008	Grove Ave	12	40	
21	3100	Grayland Ave	42	257	257
21	3100	Grayland Ave	48	104	104
21	13th	& Perry St	6		379
24	5001	PINECREST	6	80	
24	113	Brookland park	8	165	
25	0	Alley S Boulevard	12	15	15
25	0	Alley S Boulevard	12	61	61
25	0	Alley S Boulevard	12	170	170
25	0	Alley S Boulevard	12	130	130
25	0	Alley S Boulevard	12	15	15
25	0	Alley S Boulevard	12	61	61
25	0	Alley S Boulevard	12	170	170
25	0	Alley S Boulevard	12	130	130
25	100	N Sheppard St	12	24	24
25		Parker field shop wash rack	8		8
26	500	Gordon Ln	8	6	6
26	100	Alley S Boulevard	12	372	372
26	0	Alley N Boulevard	12	339	339
26	100	Alley S Boulevard	12	372	372
26	0	Alley N Boulevard	12	339	339
26	400	McCloy St	57	313	313
26	3858	Fauquier Ave	8	184	
27	0	Alley N Boulevard	12	42	42
27	0	Alley S Boulevard	12	31	31
27	0	Alley N Boulevard	12	42	42
27	0	Alley S Boulevard	12	31	31
27	100	Alley N Boulevard	18	154	154
27	100	Alley N Boulevard	18	153	153
27	3200	Grayland Ave	42	50	50
27	800	N Boulevard	84	1	
27	2316	HAWTHORNE AVE	6	16	
27	906	N 28TH STREET	6	30	
27	11th	Decatur st	6		200
28	0	Alley N Boulevard	12	119	119
28	0	Alley N Boulevard	12	258	258
28	0	Alley N Boulevard	12	119	119
28	0	Alley N Boulevard	12	258	258
28	610	Overbrook rd	8	80	
				23568	14902

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH October

DATE	BLOCK	LOCATION	SEWER LENGTH (FT)		
			PIPE SIZE	TELEVIEWED	CLEANED
1	2300	Columbia st	24	150	
1	4200	Bathgate Cir	6	24	
1	30th	Riverside dr	8		180
1	2300	Columbia St	8		210
1	900	w 30th St	8	95	95
1	200	Alley btw S Boulevard & S Colonial St	12	282	282
1	2200	Parkwood Ave	12	133	133
1	200	Alley btw S Boulevard & S Colonial St	15	303	303
2	Randolph	Claiborne St	8	329	
2	3122	Alvis ave	6	20	
2	1500	Irby St	8	302	302
2	600	W 33rd St	18	362	362
2	100	Alley btw S Boulevard & S Colonial St	20	316	316
2	2200	Seminary Ave	20	438	438
2	2800	W Cary St	24	164	164
3	3400	1st ave	6	70	
3	1221	Admiral St	6	41	
3	2100	Richmond st	8		540
3	1302	School St	6		60
3	3804	Mcguire Ave	8		6
3	0	Alley btw S Sheppard St & S Colonial St	8	58	58
3	0	S Sheppard St	12	40	40
3	0	Alley btw N Boulevard & N Mulberry St	12	33	33
3	2900	Alley btw Ellwood & W Cary St	12	110	110
3	200	Alley btw N Boulevard & N Mulberry St	12	219	219
3	2800	Alley btw Ellwood & W Cary St	12	214	214
4	2111	Richmond St	8	172	
4	910	Semmes Ave	8	191	
4	12th	Canal St	12	47	
4	3804	Mcguire Dr	8	352	
4	6255	Debora Dr	6	61	
4	906	N 28th St	6	32	
4	3711	Broadrock Blvd	8		440
4	100	Alley btw S Boulevard & S Mulberry St	12	125	125
4	300	Alley btw N Boulevard & N Mulberry St	12	39	39
4	300	Alley btw N Boulevard & N Mulberry St	12	296	296
4	2700	Alley btw Floyd Ave & Grove Ave	12	126	126
4	2500	Alley btw W Broad & W Grace St	15	334	334
5	804	N 31st St	6	30	
5	2700	Stuart Ave	8	27	27
5	3600	Noble Ave	8	115	115
5	3600	Noble Ave	8	141	141
5	300	N Mulberry St	12	235	235
5	1200	School St	12	334	334
5	2500	Stuart Ave	15	376	376
8	3800	Mcguire Dr	8	11	
8	5009	Bromley Ln	6	92	
8	2700	W Main St	12	147	147
8	2600	W Main St	12	215	215
8	1400	Wilmington Ave	12	37	37
8	1600	Wilmington Ave	12	16	16
8	2800	Barry St	12	235	235
8	2800	Barry St	15	52	52
8	2700	Stuart Ave	24	358	358
9	2423	Park ave	12	58	
9	37th	Peyton Ave	8	277	
9	2008	Fairfield Ave	6	40	
9	600	W 33rd St	8	296	296
9	800	W 29th St	8	147	147
9	2500	Stuart Ave	12	33	33
9	300	N Robinson St	12	285	285
9	100	N Auburn Ave	12	273	273
9	0	N Auburn Ave	12	119	119
9	600	W 33rd St	18	362	362
11	1810	N 22nd St	8		520
11	Cofer Rd	Hopkins Rd	8		100

11	16 N	Davis	8		450
11	200	W 33rd St	8	292	292
11	200	W 34th St	8	336	336
11	200	W 32nd St	8	160	160
11	0	N Auburn Ave	12	122	122
11	100	N Dooley Ave	12	273	273
11	0	N Dooley Ave	12	57	57
11	2600	Stuart Ave	24	353	353
12	1900	Broad Rock Blvd	6	92	
12	5000	Riverside Dr	8	277	277
12	1800	N 22nd St	12	176	176
12	3100	Ellwood Ave	20	369	369
12	3200	Ellwood Ave	20	411	411
15	1406	N 26th st	6	28	
15	11th	Decator St	6		150
15	2900	Riverside Dr	10	278	278
15	0	S Colonial St	12	232	232
15	3400	Floyd Ave	12	168	168
15	0	Dooley St	12	221	221
15	0	Dooley St	24	24	24
15	2700	Grove Ave	24	304	304
16	2715	Hull St	6	51	
16	2900	Handale Rd	8		359
16	2700	Bertham Rd	8		649
16	5527	Handale Rd	8		350
16	4000	Sharon Ct	8	218	218
16	4000	Sharon Ct	8	200	200
16	4000	Sharon Ct	8	75	75
16	0	S Colonial St	12	100	100
16	3400	Floyd Ave	12	248	248
16	10	N Davis Ave	12	285	285
16	2300	Hanover Ave	20 x 30	389	389
17	1323	E Cary St	6	51	
17	1406	N 26th	6	25	
17	809	S Meadow st	6	34	
17	10	Weaver CT	8	141	141
17	10	Weaver CT	8	306	306
17	3100	W Grace St	12	425	425
17	3400	Grove Ave	15	304	304
17	3400	Grove Ave	18	183	183
18	4020	Crutchfield ave	6	51	
18	2801	Garland Ave	6	10	
18	906	N 30th	8	40	
18	1400	Brander St	15	480	
18	1200	School St	6		60
18	5400	Snead Rd	8	284	284
18	5300	Snead Rd	8	258	258
18	3300	Grove Ave	12	251	251
18	3300	Grove Ave	18	74	74
18	3300	Grove Ave	18	219	219
19	2705	Lochaven Blvd	12	125	
19	2101	Barton Ave	18	298	
19	2705	Lochaven Blvd	12	120	
19	2800	Hathaway Rd	8	276	276
19	2800	Hathaway Rd	8	279	279
19	2800	Hathaway Rd	8	133	133
19	3200	Grove Ave	12	345	345
19	3200	Grove Ave	12	123	123
19	3200	Grove Ave	12	43	43
19	800	Albemarle St	12	30	30
19	1400	W Main St (Alley South of W Main St, between S Plum St and S Harvie St)	60	364	364
19	1200	Morris St)	63	339	339
21	4602	Forest Hill Ave	6	119	
21	1203	W 43rd St	6	40	
22	4521	W Seminary	6	17	
22	1800	Manson Ave	12	627	
22	1900	Manson Ave	12	368	
22	2200	Hildreth St	12	397	397
22	2200	W Main St	15	62	62
22	3100	Grove Ave	18	30	30
22	3100	Grove Ave	18	204	204
22	3200	Grove Ave	18	209	209
22	400	w 30th St	18	183	183
22	2300	Grove Ave	20	46	46
22	2200	Grove Ave	28 x 42	385	385
23	2710	E Franklin St	16x24	167	
23	2900	Bertram Rd	8	422	
23	4117	W Franklin St	6	24	

23	7806	Forest Hill Ave	6	32	
23	4600	Foresthill Ave	12	240	
23	4000	Crutchfield Ave	8	300	300
23	2200	Floyd Ave	12	212	212
23	2200	Floyd Ave	24	4	4
23	2200	Floyd Ave	24	222	222
23	2200	Grove Ave	24	185	185
24	# 6	Dodley Ave	12	97	
24	3900	W Grace St	10	200	200
24	3400	Rosewood Ave	20	167	167
25	2423	Park ave	6	32	
25	10164	Garfield Ave	6	102	
25	7400	Riverside Dr	40	492	492
26	3100	Parkwood Ave	18	359	359
26	3300	Idlewood Ave	24 X 24	299	299
26	1600	N 25th	36	15	15
29	4708	Bromley Ln	6	80	
30	1900	Elmsmere Rd	8	6	
31	2700	Stacie Rd	8	318	
31	2800	Stacie Rd	8	351	
31	2700	Clearfield Rd	8	600	
31	2800	Stacie Rd	8	400	
31	2700	Stacie Rd	8	340	
				29493	25783

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH November

DATE	BLOCK	LOCATION	SEWER LENGTH (FT)		
			PIPE SIZE	TELEVISED	CLEANED
1	7663	Idlewyld rd	6	60	
1	3900	Caulder Ct	8	236	236
1	3900	Caulder Ct	8	239	239
1	3900	Caulder Ct	8	14	14
1	200	Alley btw S Boulevard & S Colonial St	12	282	282
1	2100	W Main St	12	182	182
1	2000	Walker St	12	192	192
1	2000	Walker St	12	341	341
1	200	Alley btw S Boulevard & S Colonial St	15	303	303
1	1500	Floyd Ave	16 x 24	299	299
2	700	Albemarle St	12	142	142
2	700	Spring St	12	39	39
2	100	Alley btw S Boulevard & S Colonial St	20	316	316
2	400	S Laurel St	16 x 24	113	113
2	2800	W Cary St	24	164	164
3	0	Alley btw S Sheppard St & S Colonial St	8	58	58
3	0	S Sheppard St	12	40	40
3	0	Alley btw N Boulevard & N Mulberry St	12	33	33
3	2900	Alley btw Elwood & W Cary St	12	110	110
3	200	Alley btw N Boulevard & N Mulberry St	12	219	219
3	2800	Alley btw Elwood & W Cary St	12	214	214
3	3300	Warner Rd	12	5	5
3	1000	Floyd Ave	16 x 24	121	121
3	1000	Floyd Ave	16 x 24	239	239
3	1000	Parkwood Ave	16 x 24	114	114
4	100	Alley btw S Boulevard & S Mulberry St	12	125	125
4	300	Alley btw N Boulevard & N Mulberry St	12	39	39
4	300	Alley btw N Boulevard & N Mulberry St	12	296	296
4	2700	Alley btw Floyd Ave & Grove Ave	12	126	126
4	2500	Alley btw W Broad & W Grace St	15	334	334
5	3402	Hanover Ave	6	51	
5	1810	Cedarhurst Dr	6	85	
5	3121	HANES AVE	6	80	
5	3615	ENSLOW AVE	8		500
5	2700	Stuart Ave	8	27	27
5	300	N Mulberry St	12	235	235
5	2500	Stuart Ave	15	376	376
6	1628	ROSECREST AVE	8		200
6	4206	NEW KENT AVE	8		400
6	1700	W Cary St (Alley South of W Cary St between S Allen Ave and Temple St)	12	187	187
6	1900	W Main St	18	224	224
6	1800	W Main St (Alley North of W Main St between N Granby St and N Allen	42	148	148
6	1000	Idlewood Ave (Int Idlewood Ave and S Linden St)	48	248	248
7	4807	Monumental St	6	40	
7	1700	W Cary St	16 x 24	399	399
7	3000	Williamsburg Ave	16x24	194	194
8	3213	Edgewood Ave	8	409	
8	3460	CHAPEL DR	6	18	
8	5116	FOREST HILL AVE	6		50
8	2700	W Main St	12	147	147
8	2600	W Main St	12	215	215
8	2700	Stuart Ave	24	358	358
9	219	GUN CLUB RD	8		120
9	1500	Wilmington Ave	10	260	260
9	1500	Wilmington Ave	10	298	298
9	2500	Stuart Ave	12	33	33
9	300	N Robinson St	12	285	285
9	100	N Aurburn Ave	12	273	273
9	0	N Aurburn Ave	12	119	119
9	1400	Blair St (Int Randolph St and Blair St)	12	23	23
9	1400	Wilmington Ave	12	215	215
9	1400	Wilmington Ave	12	79	79
9	1400	Wilmington Ave	12	315	315
9	1400	Kemper St	15	46	46
11	0	N Aurburn Ave	12	122	122
11	100	N Dooley Ave	12	273	273

11	0	N Dooley Ave	12	57	57
11	2600	Stuart Ave	24	353	353
12	3609	CHAMBERLAYNE AVE	6	40	
12	200	W 32nd St	8	1	1
12	1400	Wilmington Ave	12	143	143
12	1400	Wilmington Ave	12	79	79
12	3100	Ellwood Ave	20	369	369
12	3200	Ellwood Ave	20	411	411
12	1900	Grove Ave	16 x 24	371	371
13	600	S Cherry St (North of Holly St)	12	89	89
13	1500	Grove Ave	15	124	124
13	600	S Harrison St (Int Lakeview Ave and S Harrison St)	16 x 24	88	88
13	800	N 23rd St	20x30	185	185
14	701	N 21ST STREET	6	80	
14	700	Byrd Park Ct	10	67	67
14	700	Byrd Park Ct	10	16	16
14	3100	Letcher Ave	12	467	467
14	1400	W Main St	24 x 36	394	394
14	1100	Idlewood Ave	42	122	122
15	300	Dundee Ave alley	8	337	337
15	0	S Colonial St	12	232	232
15	3400	Floyd Ave	12	168	168
15	0	Dooley St	12	221	221
15	3100	MIDLOTHIAN TPK	12	71	71
15	3100	MIDLOTHIAN TPK	12	140	140
15	3100	MIDLOTHIAN TPK	15	355	355
15	0	Dooley St	24	24	24
15	2700	Grove Ave	24	304	304
16	1103	Granite Ave	6	67	
16	6531	MIDLOTHIAN TPK	6	40	
16	2108	E BROAD ST	6	45	
16	1809	W CARY ST	6		30
16	300	Dundee Ave alley	8	208	208
16	200	W 32nd St	8	146	146
16	0	S Colonial St	12	100	100
16	3400	Floyd Ave	12	248	248
16	2000	Grove Ave (Int. Grove Ave and N Meadow St)	15	125	125
16	200	S Cherry St (South of Downtown Expy)	15	245	245
17	5907	Ferrison Rd	6	17	
17	3400	Grove Ave	15	304	304
17	3400	Grove Ave	18	183	183
18	2205	E Broad St	6	38	
18	3300	Grove Ave	12	251	251
18	3300	Grove Ave	18	74	74
18	3300	Grove Ave	18	219	219
19	3715	Huguenot Rd	6		50
19	208	LASALLE RD	12		378
19	3011	KROUSSE	15		349
19	23	E 36th St	8	1043	
19	3100	Irvington St	8	129	129
19	3100	Irvington St	8	300	300
19	3200	Grove Ave	12	345	345
19	3200	Grove Ave	12	123	123
19	3200	Grove Ave	12	43	43
19	700	Tiber Ln	12	402	402
19	700	Tiber Ln	12	135	135
19	700	W 28th St	54	357	
19	700	W 28th St	54	113	
19	700	W 27th St	54	240	
19	700	W 28th St	54	44	
20	1000	Grove Ave	20 x 30	339	339
20	1000	Grove Ave	20 x 30	36	36
20	4509	Monument ave	8	357	
20	100	E 37th St	8	256	
20	11	E 37th	6		280
20	3401	Cutshaw Ave	12		555
20	6707	Hanover Ave	6	23	23
20	2600	Lamb Ave	8	144	144
20	4600	Kensington Ave alley	8	205	205
20	4600	Kensington Ave alley	8	236	236
20	4600	Kensington Ave alley	8	231	231
20	1500	S Cherry St (South of Downtown Expy)	60	21	21
21	2100	Miller Ave alley	12	175	175
21	2100	Miller Ave alley	12	94	94
22	3100	Grove Ave	18	30	30
22	3100	Grove Ave	18	204	204
22	3200	Grove Ave	18	209	209

26	1801	Mansion	8		715
26	3505	Moody Ave	8		90
26	5200	Media Rd	8	148	148
26	5200	Media Rd	8	196	196
26	5200	Media Rd	8	233	233
26	400	E Grace St	12	90	90
27	3518	crutchfield	8		415
28	3600	Noble Ave	8	161	161
28	2700	Lochaven Blvd	12	145	145
29	3707	Chrutchfield	8		305
29	3716	Chrutchfield	8		90
29	201	Bland Ave	12		400
29	3600	Dunee	8		605
29	100	Bartee Rd	8	371	371
29	100	Bartee Rd	8	373	373
29	100	Brandon Rd	12	178	178
29	100	Brandon Rd	12	51	51
29	100	Brandon Rd	12	122	122
30	3900	Decatur Ave	8	85	85
30	3900	Decatur Ave	8	233	233
30	3900	Decatur Ave	8	190	190
				20954	22782

CITY OF RICHMOND VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR 2012

MONTH December

DATE	BLOCK	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVISED	CLEANED
1	308	S Mulberry st	6	19	
1	7	S 1st	6	19	
3	1400	Brander St	10		80
3	900	Brander St	15		300
3	607	Northside ave	6		680
3	1000	Young St	8	154	154
3	5400	Troy Rd	8	119	119
4	1318	Loch Lomond	8		250
4	111h	Decatur st	6		690
4	1801	w Broad st	12		670
4	5400	Troy Rd	8	341	341
4	2200	Troy Ct	8	218	218
4	2700	Stratford Rd alley	8	57	57
4	2700	Stratford Rd alley	8	193	193
5	5604	HAYWOOD RD	6	31	
5	3400	MISSOURI AVE	6	47	
5	3400	Missiun Ave	6	47	
5	5604	Haywood rd	6	31	
5	1400	Brander St	18		710
5	3524	Moody Ave	12		560
5	2933	Brook rd	12		340
5	5100	Patterson Ave	8	812	406
5	1200	Admiral Gravelly Blvd	8	203	203
5	1200	Admiral Gravelly Blvd	8	256	256
5	3100	Walmsley Blvd	8	290	290
6	900	W Grace St alley	12	114	114
6	5400	Patterson Ave	36	136	68
7	18	W Broad St	6	41	
7	900	Randolph St	54	608	
9	3414	Irvington St	6	30	
9	1400	Brander St	18		347
10	1400	Brander St	18		690
10	5000	Patterson Ave	6	31	31
10	5000	Patterson Ave	6	33	33
10	5100	Patterson Ave	8	309	309
10	5500	Grove Ave	8	254	254
10	5500	Grove Ave	8	190	190
10	5400	Grove Ave	8	329	329
10	5300	Grove Ave	8	357	357
10	700	Spnng St	12	55	55
10	5400	Patterson Ave	27	203	203
11	6951	Patterson Ave	8		440
11	6951	Patterson Ave	6		17
11	5000	Patterson Ave	12	263	263
11	5000	Patterson Ave	12	44	44
11	900	W Grace St	12	68	66
11	5000	Patterson Ave	15	62	62
11	2000	Lamb Ave	18	122	122
11	2000	Lamb Ave	18	269	269
11	2000	Lamb Ave	18	269	269
11	5000	Patterson Ave	21	339	339
11	2900	Fendall Ave	33	34	34
12	3115	2ND AVE	6	48	
12	1403	N 20TH ST	6	30	
12	4300	W Grace St	8	264	264
12	2100	2ND AVE	8	10	10
13	700	Hill Top Dr	12	116	116
13	700	Hill Top Dr	12	90	90
13	700	Hill Top Dr	12	127	127
13	700	Hill Top Dr	12	80	80
13	1800	Claiborne St	18	359	359
14	2419	E FRANKLIN ST	6	38	
14	1000	Garber St	8	11	11
14	1000	Garber St	8	278	278
14	1000	Garber St	8	385	385
14	2100	Wnght Ave	8	143	143
14	2100	Wnght Ave	8	149	149

14	1900	Ridgemont Ave	8	241	241
14	1900	Ridgemont Ave	8	184	184
14	4600	Bunting Ave	21	180	180
14	4600	Lexington Rd	36	305	305
15	224	Bartee rd	6	24	
16	5416	Wanwnght Dr	6	54	
17	1800	5th Ave	8	149	149
17	1900	5th Ave	8	359	359
17	3300	W Franklin St	12	470	470
17	3300	Park Ave	18	213	213
18	4500	Patterson Ave	8	232	232
18	0	Towanda Rd	8	302	302
18	0	Towanda Rd	8	207	207
18	0	Towanda Rd	8	34	34
18	2800	Park Ave	12	135	135
18	2800	Park Ave	12	125	125
18	2900	Park Ave	12	361	361
18	3200	Kensington Ave	12	137	137
18	3300	Kensington Ave	12	28	28
18	600	Westmoreland Ave	15	261	261
18	1200	S Allen Ave	42	17	
19	4929	Branchwood	8		309
19	4400	Patterson Ave	8	176	176
19	4400	Patterson Ave	8	42	42
19	4400	Patterson Ave	8	304	304
19	400	N Sheppard St	12	39	39
19	3300	Kensington Ave	12	492	492
19	400	N Sheppard St	12	328	328
19	4500	Patterson Ave	21	62	62
20	9	W CARY ST	6	15	
20	2306	CHAMBERLAYNE AVE	12		320
20	4100	NORTH AVE& LABURNUM	8		300
20	2720	TOLEDO AVE	12		320
20	322	N 25th	6	72	
20	2507	Sisco Ave	6	39	
20	4300	Patterson Ave	6	149	149
20	4300	Patterson Ave	6	51	51
20	4200	Patterson Ave	8	202	202
20	4200	Patterson Ave	8	204	204
20	4300	Patterson Ave	8	130	130
20	4300	Patterson Ave	8	85	85
20	3000	Kensington Ave	12	365	365
20	3400	Stuart Ave	12	41	41
20	300	N Nansemond St	12	285	285
20	2100	Hull St	12	100	100
20	100	Belt Blvd	12	307	307
20	3500	Stuart Ave	15	86	86
20	3500	Stuart Ave	15	247	247
20	700	Sauer Ave	21	29	29
20	800	Sauer Ave	21	343	343
20	700	Commonwealth Ave	42	312	312
20	800	Commonwealth Ave	42	346	346
21	510	N 31ST ST	6	72	
21	2900	Patterson Ave	12	205	205
21	3300	Stuart Ave	12	488	488
21	3100	Hanover Ave	12	368	368
21	3200	Park Ave	15	251	251
21	3300	Park Ave	15	250	250
22	700	E Broad st	6	76	
25	5500	Kingsbury Rd	15	132	132
25	5300	Kingsbury Rd	15	103	103
26	6924	Longview Dr	8		211
26	1100	Libbie Ave	8	181	181
26	900	Libbie Ave	8	78	78
26	800	Libbie Ave	8	127	127
26	400	N Nansemond St	12	22	22
26	3500	Stuart Ave	15	134	134
26	3500	Stuart Ave	15	39	39
26	3500	Kensington Ave	15	47	47
26	3500	Stuart Ave	15	69	69
27	100	Lancaster rd	15		227
27	11	Norwood st	12		210
27	4000	Patterson Ave	8	210	210
27	4000	Patterson Ave	8	201	201
27	800	Libbie Ave	8	233	233
27	5500	Queensbury Rd	8	45	45
27	2900	Park Ave	12	41	41
27	400	N Thompson St	15	47	47

27	400	N Thompson St	15	67	67
27	400	N Thompson St	15	38	38
27	3200	Hanover Ave	18	450	450
27	4100	Patterson Ave	24	284	284
27	4100	Patterson Ave	24	286	286
28	3900	Patterson Ave	8	198	198
28	600	Arlie St	8	75	75
28	300	Laurel Ave	12	30	30
28	400	Harlan Circle	18	338	338
28	3400	Kensington Ave	18	566	566
28	1100	N 23rd St	18	333	333
28	4000	Patterson Ave	30	389	389
29	404	W 33rd St	6	46	
29	200	E 12th st	6	94	
29	4710	Cary St Rd	6	80	
30	1110	S Lombardy St	6	15	
30	400	E Broad st	15		383
30	301	E Broad st	15		383
30	300	E Broad st	15		283
				18866	21092

Combined Sewer System Report for 2012

APPENDIX 4-4

Catch Basin Cleaning

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

YEARLY
Catch Basin Cleaning Summary

YEAR 2012SIGNATURE Howard Glenn

DATE	MONTHLY TOTAL OF CATCH BASIN CLEANED	PERCENT OF TOTAL CATCH BASINS
JANUARY	203	0 68
FEBRUARY	137	0 46
MARCH	194	0 65
APRIL	185	0 62
MAY	215	0 72
JUNE	240	0 80
JULY	259	0 86
AUGUST	326	1 09
SEPTEMBER	348	1 16
OCTOBER	313	1 04
NOVEMBER	197	0 66
DECEMBER	202	0 67
YEARLY TOTAL	2819	9 40

Combined Sewer System Report for 2012

APPENDIX 5-1

Sewer Relining

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

YEARLY
SEWER LINING REPORT

YEAR 2012

DATE	MONTHLY TOTAL LENGTH OF SEWER LINED
January	1,356
February	0
March	908
April	1,780
May	444
June	745
July	867
August	0
September	0
October	0
November	0
December	0
YEARLY TOTAL	6,100

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH January

DATE	BLOCK	LOCATION	PIPE SIZE	Linear Footage Lined
11	200	E 4th St	12	315
12	800	Everett St	12	86
12	800	Everett St	12	68
13	800	Stockton St	12	127
6	700	Everett St	15	36
9	700	Everett St	15	38
10	800	Stockton St	15	81
25	200	E 1st St	15	386
23	600	Stockton St	18	121
4	500	Overbrook Rd	30	98
				1356

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH February

DATE	BLOCK	STREET	PIPE SIZE	Linear Footage Lined
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No Lining this month

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH March

DATE	BLOCK	Street	PIPE SIZE	Linear Footage Lined
19	10	E 4th St	12	324
20	300	Everett St	12	156
17	600	Hull St	15	347
20	800	Everett St	18	81
				908

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH April

DATE	Block	Location	PIPE SIZE	SEWER LENGTH LINED
19	800	Decatur St	12	116
19	800	Decatur St	12	102
27	500	Hull St	12	314
13	300	E 6th St	15	382
13	300	E 6th St	15	27
17	800	Decatur St	15	82
11	700	E 2nd St	18	385
16	10	E 3rd St	24	372
				1780

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH May

DATE	BLOCK	LOCATION	PIPE SIZE	Linear Footage Lined
16	600	Hull St	10	27
16	10	East 6th St	10	30
17	500	E 5th St	15	146
17	500	E 5th St	15	214
17	300	E 5th St	15	27
				444

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH June

DATE	BLOCK	LOCATION	PIPE SIZE	Linear Footage Lined
11	8600	Chippenham Rd	18	164
14	400	Stockton St	24	289
15	400	Stockton St	24	292
				745

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH July

DATE	BLOCK	LOCATION	PIPE SIZE	Linear Footage Lined
3	300	Stockton Ave	30	354
18	300	Hull St	20	260
19	10	E 2nd St	18	202
18	400	Hull St	10	25
18	400	Hull St	10	26
				867

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH August

DATE	BLOCK	STREET	PIPE SIZE	Linear Footage Lined
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No Lining this month

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH September

DATE	BLOCK	STREET	PIPE SIZE	Linear Footage Lined
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No Lining this month

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH October

DATE	BLOCK	STREET	PIPE SIZE	Linear Footage Lined
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No Lining this month

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH November

DATE	BLOCK	LOCATION	PIPE SIZE	Linear Footage Lined
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No Lining this month

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

FORM B-1B

MONTHLY
SEWER LINING REPORT

YEAR 2012

MONTH December

DATE	BLOCK	LOCATION	PIPE SIZE	Linear Footage Lined
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No Lining this month

Combined Sewer System Report for 2012

APPENDIX 9-1

Loose Leaf

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

YEARLY
LOOSE LEAF COLLECTION SUMMARY

YEAR 2012

January - December

GENERAL RESIDENTIAL ROUTE	TONNAGE
SEE ATTACHED MAP AND LEAF COLLECTION SCHEDULE	15,768

SIGNATURE Lewis Yancey

2012



This Leaf Collection Schedule is subject to change due to inclement weather

Disclaimer:
The City of Richmond assumes no liability either for any errors, omissions or inaccuracies in the information provided regardless of the cause or for any decision made, action taken, or action not taken by the user in reliance upon any maps or information provided herein.

Combined Sewer System Report for 2012

APPENDIX 10-1

Plant Tours

City of Richmond, Virginia
Department of Public Utilities

Wastewater Treatment Plant

Plant Tours
2012

Date	Group	No of People
November 2	VCU/ Gov Affairs	12
November 29	Black & Veatch	4

Combined Sewer System Report for 2012

APPENDIX 10-2

Adopt-A-Spot

**ADOPT A SPOT REPORT
CLEAN CITY COMMISSION
DEPARTMENT OF PUBLIC WORKS**

Participant	Date	No. persons	Hrs	Bags
(1) Chesapeake Bay Foundation - Bryan Park				
	1/7/2012	114	285	155
	3/13/2012	85	170	20
	4/14/2012	31	3	50
	9/22/2012	18	4	22
(33) James River & Pony Pasture & Reedy Creek	6/9/2012	360	1080	72
Richmond Guardian Angels -3100 MeadowbridgeRd , 3200 Utah Pl				
(2) Richmond Alumnae Chapter Delta Sigma Theta Sorority INC - Clay St to N 3rd St				
	3/10/2012	10	1	9
	4/14/2012	10	0 5	9
(3) Richmond Alumnae Chapter Delta Sigma Theta Sorority INC - R & 28th, R & 27th , 29th				
	4/14/2012	10	0 5	1
	4/4/2012	4	2	5
	4/21/2012	1	1 5	6
	4/29/2012	1	1 5	1
	5/6/2012	1	0 2	1
	5/12/2012	1	0 5	4
	5/24/2012	3	3	4
	2/17/2012	4	1 1	5
	3/11/2012	1	3	3
	3/22/2012	1	1 5	4
	3/29/2012	1	1 5	4
	5/11/2012	2	1	2
	6/9/2012	6	1	1
(4) Girl Scout troop #105 - Southside Plaza				
(5) Highland Park Souther Tip - 2500 Robert Moore Cir and 1600 4th Ave				
	3/31/2012	8	8	23
(6)Interfraternity Council @ VCU - 1100 blk of Floyd Ave				
(7) Knights of Pythagoras -801 Prince Hall Dr	7/16/2011	12	1	1
	2/11/2012	12	1 5	2
	3/16/2012	9	1	1
	3/30/2012	7	2	4
	4/14/2012	7	1	1

	5/12/2012	6	1	1
	6/9/2012	6	1	1
Latasha Allen-Hyde & Jerry Bennett - 200-1100 Dove Street				
(10) Phi Sigma Pi National Honor Fraternity Alpha Sigma Chapter - 1300 Floyd Ave				
	2/25/212	10	2	5
	3/19/2012	11	2	7
(12)Phi Kappa Psi - Bell Isle				
	3/30/2012	7	2	4
(13) Phi Mu Alpha Sinfonia - Park @ Harrison st & Grove Ave 900 1400 blks	3/25/2012	8	1 5	1
(14) Omega Psi Phi Fraternity - Brook Rd & W Duval St - E Duval Street	1/28/2011	16	2	5
	4/12/2012	13	1	13
	4/14/2012	13	1	2
(16) Saving Our Youth - 3206 Maryland Ave				
(17) Sahara Temple #7 - 25th - Nine Mile & R st				2
	1/14/2012	7	2	7
	2/11/2012	7	2	4
	4/21/2012	7	2	4
	2/11/2012	8	2	6
	3/10/2012	15	2	13
	4/14/2012	10	2	1
	5/19/2012	9	2	3
	6/2/2012	6	2	1
	6/9/2012	5	2	2
(19).VUU Student Atheltic ADV Com - Admiral St to Brook Rd	2/16/2012	11	1	3
		8	1	2
	3/22/2012	14	1	3
	3/28/2012	7	1	2
	3/30/2012	6	1	2
(20) Sigma Gamma Rho Sorority Inc - 3rd st & Jackson/ Belvidere & Leigh and Chamberlayne Ave & Brookland Park blvd across from Walgreens				10
	5/5/2012	10	3	7
(22) Golden Key International Honour Society - 200 block Harrison St				
(24) Zeta Phi Beta Sorority INC - Sigma Delta Zeta Chapter - Brookland Park Blvd	12/17/2011	3	1	3
	2/25/2012	4	1	2
	6/23/2012	2	1	1
(29) Zeta Chapter - Eta Phi Sorority - 4600 W Broad St				
	3/17/2012	4	1	3

(25) Vietnamese Student Association - Intersections of Cary st & Belvidere St - Cary st & S Harrison		3	15	1
	2/11/2012	2	1	1
	4/15/2012	2	1	1
(27) Tamara Lester - The Ravens - Whitehead & Elkart Rd	4/30/2012	4	1	2
3201 Hanes Ave	6/25/2012	3	4	3
(28) 7 Eyes Neighborhood Watch - 500 blk N 1st St	5/4/2012	3	2	1
		200	50	
(30) 9th District - Hey & Hull	5/19/2012			12
	7/8/2012	12	1	5
(31) Franklin Grove LLC - Williamsburg Rd btw Government and Williamsburg & E Main St				
	5/28/2012	10	2	3
	6/7/2012	4	3	2
	6/20/2012	5	4	6
(32) Dunlap & Partners Engineers - W Laburnum Ave on ramp to I-95S	6/20/2012			
	7/1/2012	2	1	2
	7/15/2012	2	1	2
	8/1/2012	2	1	2
	8/15/2012	2	1	2
	9/1/2012	2	1	2
Chamberlayne Ave Initiative - Chamberlayne Ave from Azalea to Brooklan pkwy	6/23/2012	11	2	14
Tru Divaz Sc Inc - 1700 & 1800 Halifax Ave	7/31/2012			
Total		1221	1697.3	591

Combined Sewer System Report for 2012

APPENDIX 10-3

Trash Pick Up

**City of Richmond, Virginia
Department of Public Works
Nine Minimum Controls Report**

Yearly Litter Basket Collection Summary

Year 2012

Signature Frank J. Motley

Month			Tonnage
January			73 41
February			41 01
March			52 73
April			42 6
May			42 86
June			48 02
July			83 9
August			76 67
September			57 3
October			36 28
November			39 75
December			52 46
Yearly Total			646.99

Combined Sewer System Report for 2012

APPENDIX 10-4

Street Sweep

2012 Residential Street Sweeping
Total lane miles swept this season – 22,027

<u>Routes</u>	<u>Area Covered</u>	<u>Dates</u>
1	Fulton/Church Hill	6/4-6/8, 9/3-9/7
2	Church Hill	6/11-6/15, 9/10-9/14
3	Highland Park	4/16-4/20, 7/23-7/27
4	Northside/Ginter Park	6/25-6/29, 9/24-9/28
5	Bellevue/Sherwood Park/Washington Park	6/18-6/22, 9/17-9/21
6	Lower West End	4/9-4/13, 7/16-7/20
7	Far West End	7/2-7/6, 10/1-10/5
8	Bainbridge/Bellemeade/Davee Gardens	5/14-5/18, 8/13-8/17
9	Woodland Heights/Swansboro/Westover Hills	5/21-6/1, 8/20-8/31
10	Downtown/Carver/Newtowne/Millie Jones	4/2-4/6, 7/9-7/13
11	The Fan	4/30-5/4, 7/30-8/3
12	West of the Boulevard	5/7-5/11, 8/6-8/10
13	Neighborhood Subdivisions	4/23-4/27, 7/23-7/27

Combined Sewer System Report for 2012

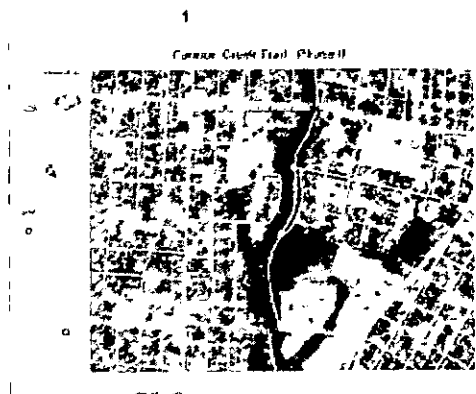
APPENDIX 11-1

City Press Releases

Announcements

Friday, February 24, 2012

Cannon Creek Greenway Bicycle & Pedestrian Trail - Phase II Project Presentation



City residents are encouraged to attend the Cannon Creek Greenway Bicycle & Pedestrian Trail - Phase II project presentation on Thursday March 1 2012. The presentation and Dove Street Redevelopment Master Plan Update will be held at Overby Sheppard Elementary School auditorium (2300 1st Avenue) from 6 p.m. to 7:30 p.m.

Presenters include

- Whitman Requardt and Associates (Cannon Creek Trail Project Consultants)
- City of Richmond Department of Public Works Engineering Division
- City of Richmond Department of Economic and Community Development
- Richmond Redevelopment Housing Authority
- Richmond Raiders representative

The project presentation will review the conceptual design of the Phase II Cannon Creek Trail that will extend from Dove Street north along the east side of the Richmond - Henrico Turnpike to the intersection of East Brookland Park Boulevard. Presenters will also discuss the increase in low income rental units during Dove Street Redevelopment Phase I and the City lease agreement with The Richmond Raiders, and attendees will be able to meet the site plan designer of Dove Street Redevelopment, Doug Coles.

City residents are strongly encouraged to attend this presentation to provide input and to discuss the possible impact to their property.

For more information, please contact Cybelle O'Sullivan-Daniels at (804) 646-7964.
Posted by Office of the Press Secretary to the Mayor at 4:06 PM

Blog Archive

- 2013 (8)
- ▼ 2012 (31)
 - December (1)
 - November (5)
 - September (1)
 - August (1)
 - June (3)
 - May (5)
 - April (7)
 - March (4)
 - ▼ February (4)
 - City to Host Business Development Mentorship Program
 - Cannon Creek Greenway Bicycle & Pedestrian Trail -
 - City Partners with RESOURCE to Host a Hiring Event.
 - Urban Organic Vegetable Gardening Instructional Class
- 2011 (15)
- 2010 (21)

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Announcements

Wednesday, May 16, 2012

Electronic Recycling Day for Residents

0

WHO Richmond Clean City Commission, Richmond Department of Public Works, and Central Virginia Waste Management Authority

WHAT Drop off for all household electronic items, such as computers, monitors, radios, fax machines, microwaves, camcorders, etc. Fluorescent light bulbs and large appliances cannot be accepted.

WHEN Saturday, May 19, 9 a.m. to 2 p.m.

WHERE 1710 Robin Hood Road (corner of Boulevard and Robin Hood Road)

BACKGROUND The City of Richmond's *E-Cycle Day* offers City residents an efficient and green option to recycle unwanted electronic products. There is a \$7 recycling fee for televisions. All other household electronic items will be recycled free of charge. For more information on *E-Cycle Day*, visit www.RichmondGov.com <http://www.richmondgov.com/>.

Posted by Office of the Press Secretary to the Mayor at 9:13 AM

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Blog Archive

- 2013 (8)
- ▼ 2012 (31)
 - December (1)
 - November (5)
 - September (1)
 - August (1)
 - June (3)
 - ▼ May (5)
 - Virginia's Sales Tax Holiday
 - Richmond's Welcome Home Our Heroes Parade, May 19
 - Electronic Recycling Day for Residents
 - Let's Do Business With the City
 - Mayor Announces 2nd Annual "RVA Fireworks on the J
- April (7)
- March (4)
- February (4)
- 2011 (15)
- 2010 (21)

Announcements

Wednesday, January 16, 2013

Vacuum Leaf Collection Program Temporarily Suspended in Preparation for Potential Snow Removal

1

The City's Department of Public Works is temporarily suspending vacuum leaf collection service due to weather advisories indicating there is the potential the City may experience an accumulation of snow Thursday evening. The same equipment used for leaf collection is also used in the City's snow removal efforts. City crews are in the process of equipping leaf collection vehicles with spreaders and snow plows in preparation of any inclement weather.

The City will update residents and media when vacuum leaf collection resumes.

For more information on city services and schedules, please visit www.RichmondGov.com.
Posted by Office of the Press Secretary to the Mayor at 2:44 PM

Blog Archive

- ▼ 2013 (8)
 - February (5)
 - ▼ January (3)
 - Free Urban Agriculture Lecture Series
 - City of Richmond Encourages Area to Participate in
 - Vacuum Leaf Collection Program Temporarily Suspend
- 2012 (31)
- 2011 (15)
- 2010 (21)

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Thursday, January 31, 2013

①

<https://www.facebook.com/events/403986199684915/>

Starting Saturdays Feb 16 to March 23rd
Branch Baptist Church (3400 Broad Rock Blvd) Free and Open to the public
~~~~~

Posted by Office of the Press Secretary to the Mayor at 12.45 PM

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► **February (5)**

## ▼ January (3)

**Free Urban Agriculture Lecture Series**

## City of Richmond Encourages Area to Participate in

## Vacuum Leaf Collection Program Temporarily Suspend

► 2012 (31)

► 2011 (15)

► 2010 (21)

# City News

Wednesday, February 6, 2013

## City to Enforce Ordinance Designating Times for Supercan Placement

5

*~\$50 per Day Following Violation Warning~*

City residents will need to pay strict attention to the times they put out their Supercan as well as the time they remove it from the City right-of-way. Beginning March 11 in accordance with a City Ordinance residents and property owners will be subject to monetary fines for leaving their Supercans out too long.

City Code Section 86-44 stipulates Supercans and recycling bins should not be placed out earlier than 4 p.m. on the day before collection and must be removed from the right-of-way by 7 a.m. the day after collection. The City right-of-way includes sidewalks, alleys and median strips between sidewalks and roadways.

"The right-of-way is part of a natural corridor contributing to the aesthetic quality and value of our neighborhoods. Removal of our refuse and recycling receptacles after service returns this area to its natural state, providing pedestrian, cycling and vehicular passage in our communities," said James Jackson, Director of the Department of Public Works.

For the first violation of the ordinance, the property owner or utility account holder (if they are not the same person) will receive a violation notification sticker on their Supercan. The violator will also receive a letter notifying them of the infringement. Following notification, violators will be penalized \$50 per day for each calendar day the can is not removed, starting the day following the last collection. For example, if trash is collected on Tuesday and the can is still out after 7 a.m. Wednesday, a sticker will be placed on it and a letter will be sent. If the resident is still non-compliant as of the date of the letter, the fine will be retroactive back to the first day of the violation. For residents who place out more than one Supercan, a separate \$50 per day fee will be imposed for each can. The fines will be added to the monthly utility statement.

Each residence can have up to four Supercans with the City providing one can free of charge. Residents who need additional cans may purchase them for \$55 each by calling Customer Care at 3-1-1 or 646-7000.

For more information on city services and schedules, please visit [www.RichmondGov.com](http://www.RichmondGov.com).

Posted by Office of the Press Secretary to the Mayor at 10:30 AM

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- ▼ 2013 (19)
  - 02/10 - 02/17 (3)
  - ▼ 02/03 - 02/10 (3)
    - City to Enforce Ordinance Designating Times for Su
    - Richmond Social Services File Management System Be
    - Mayor Announces New Director for Richmond Animal C
  - 01/27 - 02/03 (2)
  - 01/13 - 01/20 (7)
  - 01/06 - 01/13 (4)
- 2012 (73)
- 2011 (62)
- 2010 (86)
- 2009 (89)
- 2008 (1)



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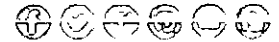
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Richmond 55°

Wednesday, Feb 27 2013



News, crime and politics for the Richmond metro area

## Richmond stormwater utility fee collections 'miserable' in 3rd year

Story Comments

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Posted Sunday, September 30 2012 1:00 am | Updated 1:35 am Thu Jan 17 2013

ROBERT ZULLO Richmond Times-Dispatch

Richmond's 3 year-old stormwater utility is struggling to collect millions of dollars in fees from property owners and the widening gulf between what the city bills and what it brings in could necessitate future rate increases, a utility official told the City Council at a meeting this month.

However, Tammy Hawley, Mayor Dwight C. Jones' press secretary, said Friday that the city is studying "best practices" in other communities to determine how to proceed with collecting delinquent fees and stressed that no rate increases are being proposed.

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What collection approach we may take is under review," she said.

Fred Burke, a financial planning manager for the city's Department of Public Utilities, told the City Council Finance and Economic Development committee that collections for the stormwater utility, which bills residential, commercial and other properties in the city based on the size of non-permeable surface area such as roofs and parking lots, were "getting miserable" in the third year.

The utility, approved by the council in 2009 to fund stormwater management projects, collected nearly \$8 million after billing nearly \$9.4 million in fiscal year 2010, its first year, and collected less than \$7.5 million after billing nearly \$9.5 million in 2011. For fiscal year 2012, the uncollected gap increased to more than \$3.4 million, with more than \$9.4 million

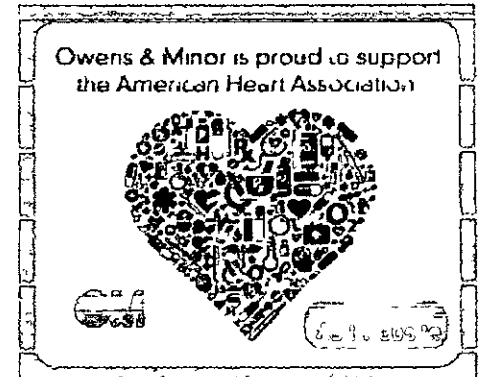
billed and \$6 million collected. That's a total unpaid rate of more than 36 percent. All told, the utility has about \$6.8 million uncollected from its three years of operation.

Council Vice President Ellen F. Robertson, who chairs the Finance and Economic Development Committee, asked Burke to explain why the city can't collect what it bills.

"The main reason for that is we are not allowed to do any traditional collection activity on the stormwater utility at this point," he said, adding that the city administration had directed the department not to pursue collections. If the trend continues, Burke said, the council members would have to consider raising rates or find another revenue source.

Councilman Bruce W. Tyler turned about the possibility that properties, especially large commercial sites that might owe thousands in fees, could have changed hands with no liens placed.

"We need to get this off the books and be honest with the citizens of Richmond that we didn't do our job," he said.



### BREAKING NEWS

Lowe's extends with Jammie Johnson through 2015

Goodlatte suggests there could be common ground on immigration

Va. bluegrass musician Alvin Breeden dies

Henrico seeks public's help in finding man missing for nearly 3 weeks

10-year-old who brought toy gun on bus has charges dropped

Top cars & vehicles Top real estate

### TOP CARS & VEHICLES



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Updated 12:13 pm

1993 FORD RANGER

\$2,800

Updated 12:15 pm



The stormwater fees apply to all property owners including residents, businesses, governments and churches with the exception of Richmond city government land, Burke said. According to the city, the money is used to implement a comprehensive stormwater quality management plan as required by the U.S. Environmental Protection Agency and the Virginia Department of Conservation and Recreation.

Non-residential property owners, excluding churches and nonprofits but including businesses and government buildings, owe the city more than \$1.9 million for the fiscal year that ended in June, according to Burke's presentation. By comparison, churches and nonprofits owed the city about \$183,000 for the same year.

Burke's presentation to the council was Sept. 20, a few days before residents staged a demonstration at City Hall to protest Richmond's base charges for water and sewer service, which are more than double the surrounding counties. In an interview, Tyler said the city can't keep raising fees and taxes on residents and businesses.

Our fees and taxes must be within 10 percent of the counties to be competitive, he said.

The Richmond Times-Dispatch last week made a Freedom of Information Act request for the list of the delinquent property owners, which the city has requested a seven-day extension to review.

The state public records law exempts public utility customer information from mandatory disclosure, but says officials have the discretion to release the records.

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**IMAGE** Kevin Fergusson

**ARTICLE** D.C. 2013: A year in review

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Richmond 55°

Wednesday, Feb 27, 2013



## Virginia News

# Governor proposes \$216.9 million to clean state waters

Story Comments

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Posted Tuesday December 18 2012 12:00 am | Updated 12:14 am Wed Dec 19 2012

BY REX SPRINGSTON AND MICHAEL MARTZ Richmond Times-Dispatch

Gov. Bob McDonnell is proposing spending more than \$200 million to help clean Virginia's waters, including the tidal James River in Richmond, where raw sewage still overflows after heavy rains.

If endorsed by the General Assembly, the \$216.9 million would be the most for water-quality programs since the state approved \$450 million — \$200 million in cash and \$250 million in bonds — in 2005, officials said.

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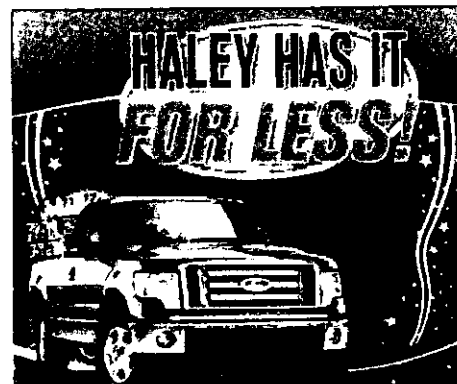
It's an investment for clean water for the governor and his administration," said Robert C. Steidel, director of public utilities in Richmond.

McDonnell on Monday proposed issuing \$200 million in bonds and spending \$16.9 million in cash.

Of the bond money, \$101 million would help localities reduce pollution from sewage treatment plants over the next several years.

In addition, \$40 million would go to Richmond and \$19 million to Lynchburg to help those cities continue efforts to modernize their sewer systems.

This is huge news for Richmond and Lynchburg and for all the other cities with projects in the works," said Doug Domenech, McDonnell's secretary of natural



## BREAKING NEWS

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Goodlatte suggests there could be common ground on immigration

Va. bluegrass musician Alvin Breeden dies

Henrico seeks public's help in finding man missing for nearly 3 weeks

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Updated 12:12 pm

AUTO  
\$11,487

Updated 12:13 pm

resources

Ann Jennings, Virginia director of the Chesapeake Bay Foundation, an environmental group, said the money is absolutely critical for the state to keep making progress on cleaning the bay.

Particularly important, she said, is the \$101 million to help localities upgrade sewage plants — "projects that are required by state law and that many localities have already committed to or begun."

About \$35 million of the bond money would help localities fight storm-water runoff, and about \$5 million would go for a sewage plant project in Hopewell, McDonnell officials said.

Most of the \$16.9 million in cash would be used to help farmers reduce pollution by fencing cattle out of streams, among other measures.

The \$40 million in state aid is critical to Richmond's ability to prevent untreated sewage and storm water from combining during big storms and overflowing into the James, primarily the tidal waters east of the 14th Street Bridge.

The city has spent some \$300 million in the past 30 years to capture as much combined sewer overflow as possible after heavy rains especially in the heavily used riverfront in the James River Park System west of the bridge and piping it to the sewage-treatment plant in South Richmond for cleansing before discharging it downriver

Richmond still has more than \$200 million in work to do under a consent order the state approved in 1992 to govern the combined sewer cleanup Steidel said It is to hold as much as we can and to treat as much as we can at the (sewage) plant

City taxpayers also foot much of the bill for the combined-sewer improvements but Steidel said the work depends on Richmond's ability to afford it. "We've reached our cap of affordability," he said.

Richmond is nearing completion of a separate \$120 million project at the sewage plant to remove nutrients that pollute the bay and its tributaries.

"We plan to make all of this work together," Steidel said.

[View the full story on WFTS.com](#)

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Posted in State regional on Tuesday, December 18, 2012 12:00 am Updated 12:14 am

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- Search warrants: Hanover child hurt in ax attack had been drugged
- Shots fired, 2 injured as Richmond robbery, robbery tries turn violent



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Posting as Tim C. Jones (Not you?) [Change](#)

David Nunnally Top Commenter Richmond, Virginia

Good news: Upgrading decades old infrastructure is a good investment. Let's hope the money is spent wisely. Likewise, we need to continue working to modernize the overall stormwater effort, focusing on increased efficiency and better results. It's not about more sophisticated computer models and more and more data and reports to support them. It's clean(er) water that counts.

Reply Like Follow Post December 18, 2012 at 7:03am

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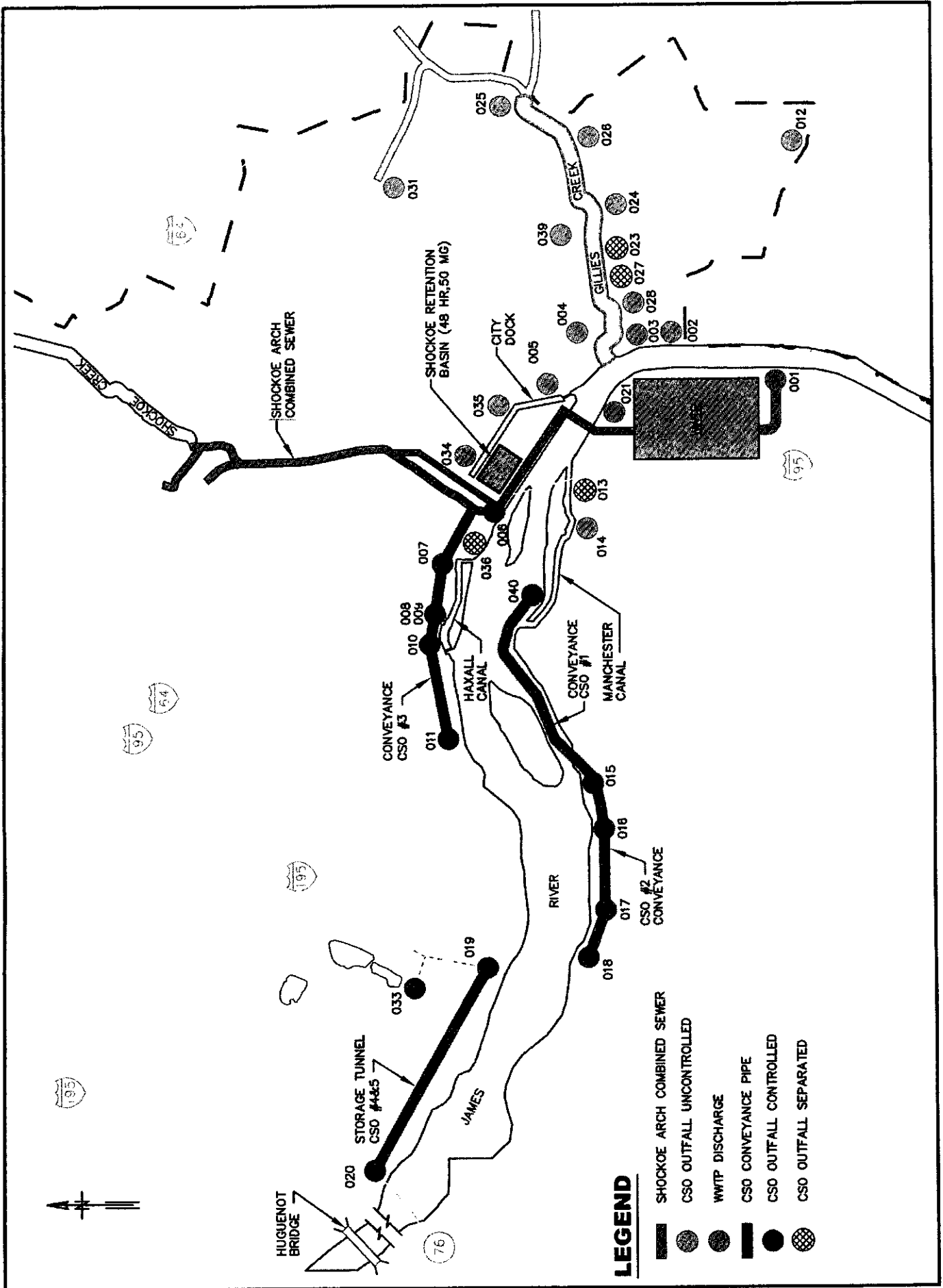
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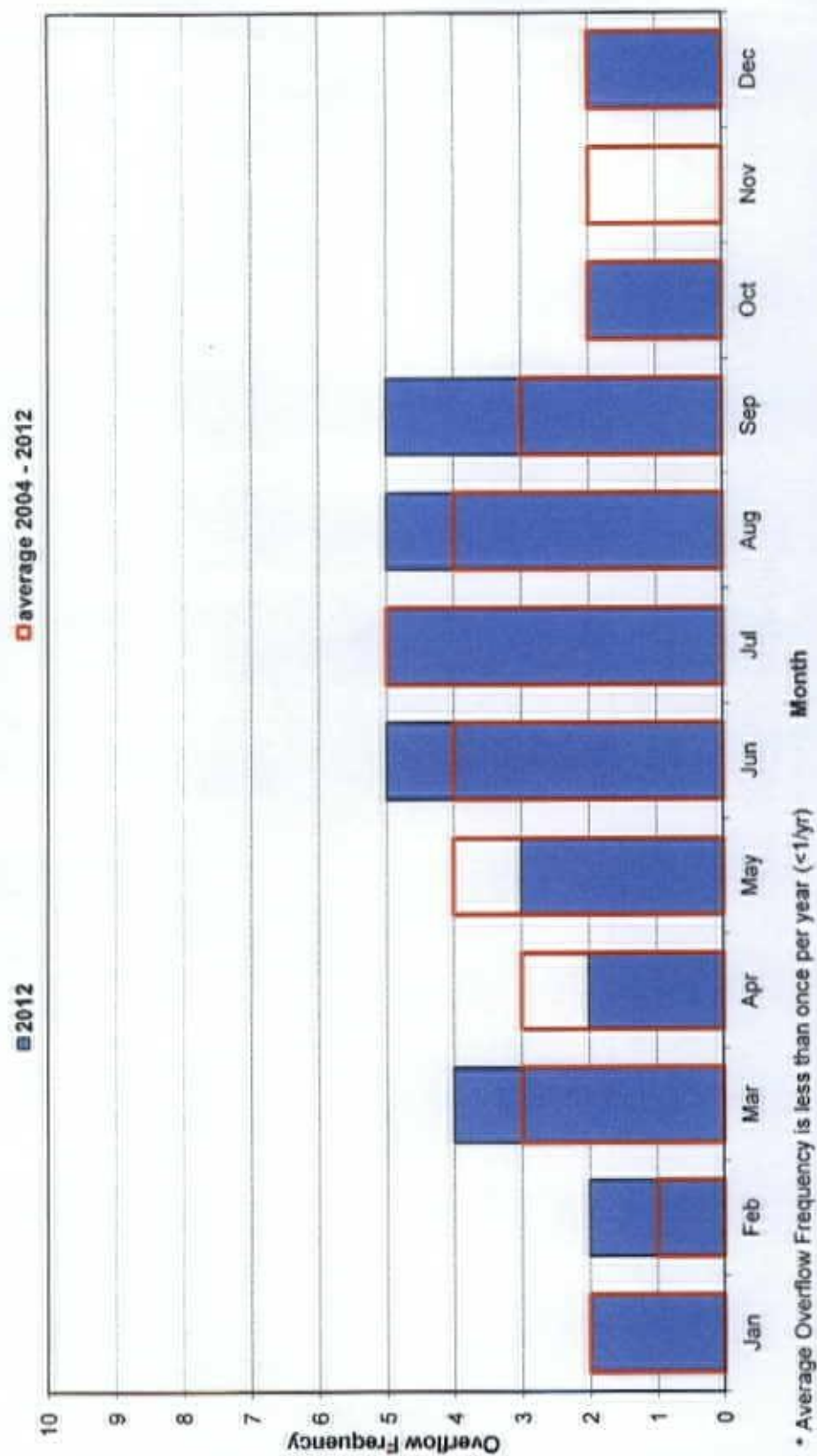
**Combined Sewer System Report for 2012**

APPENDIX 11-2

CSO Overflow Reporting



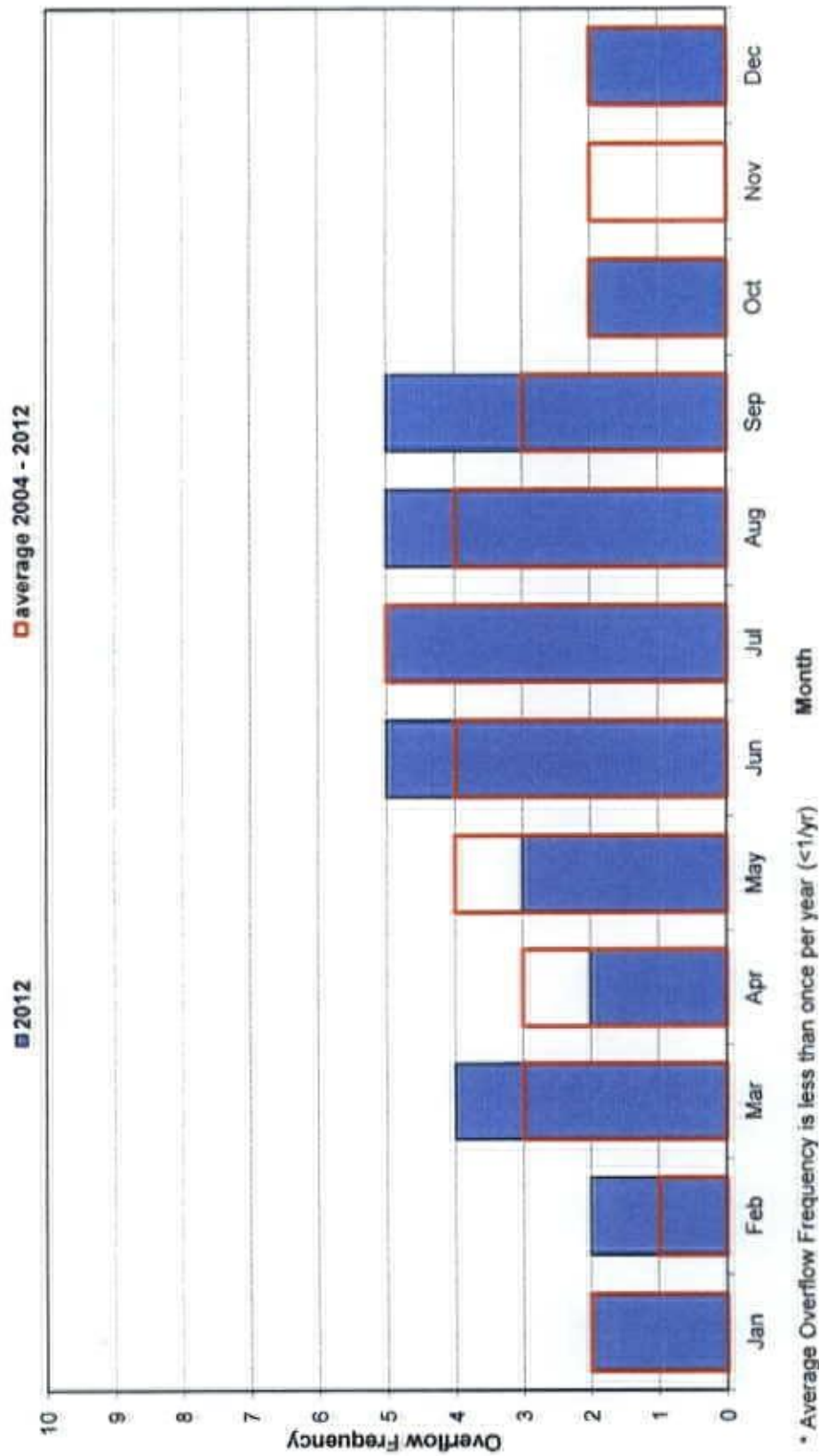
City of Richmond, Virginia  
 Overflow Frequency by Month  
CSO02 - Orleans 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
Overflow Frequency by Month

CSO03 - Nicholson 2004-2012

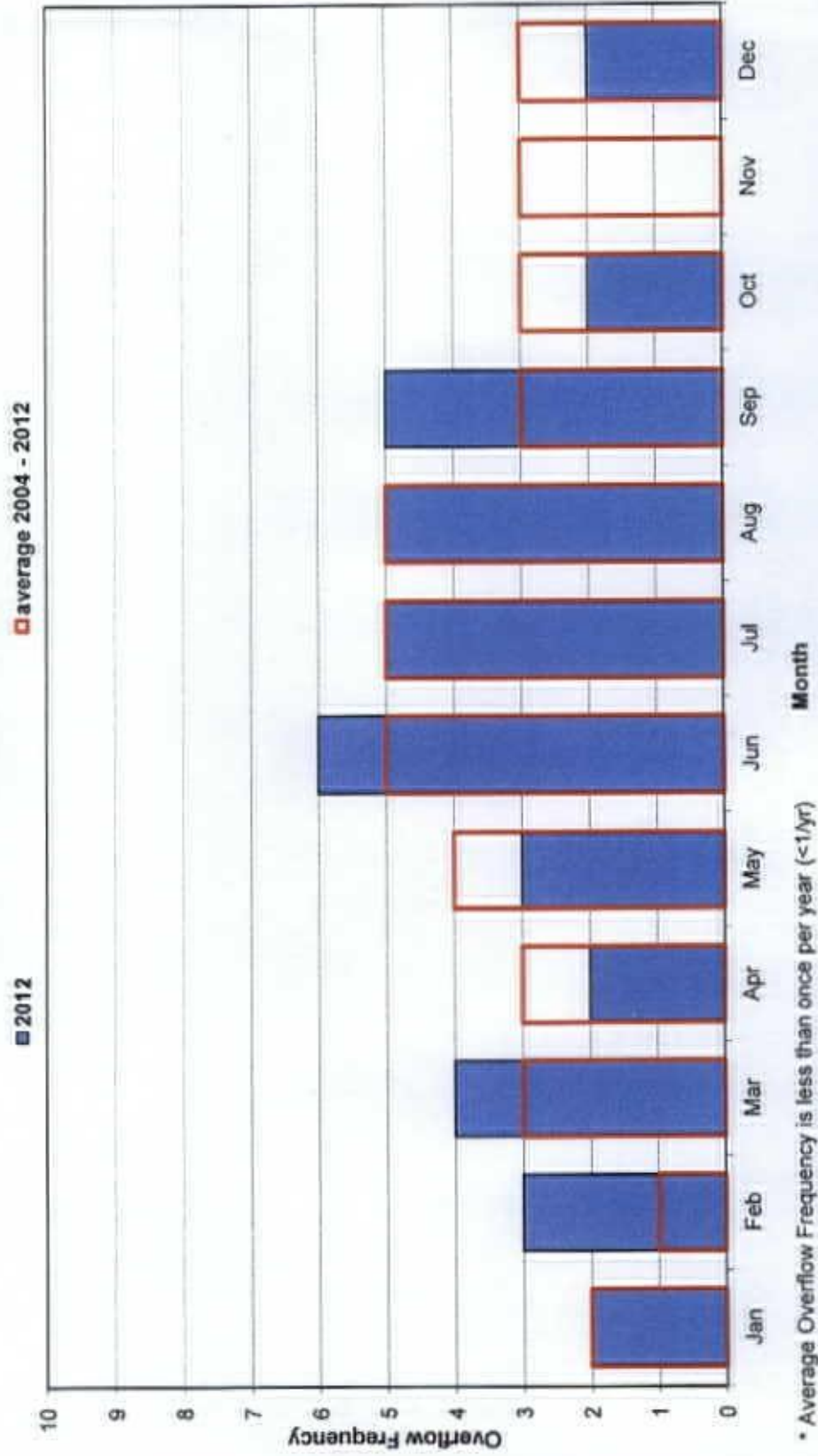


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Overflow Frequency by Month

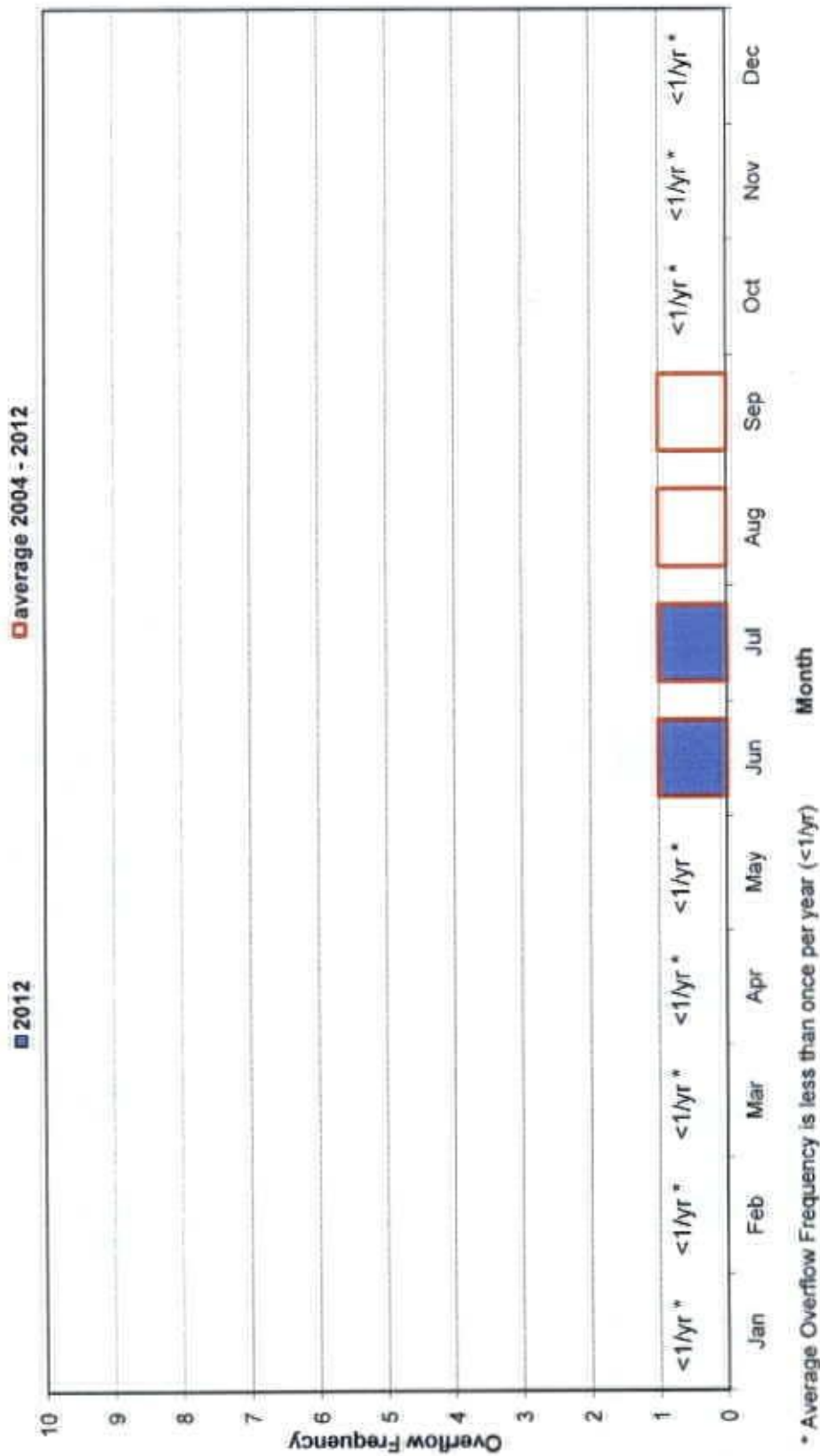
CSO04 - Bloody Run 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

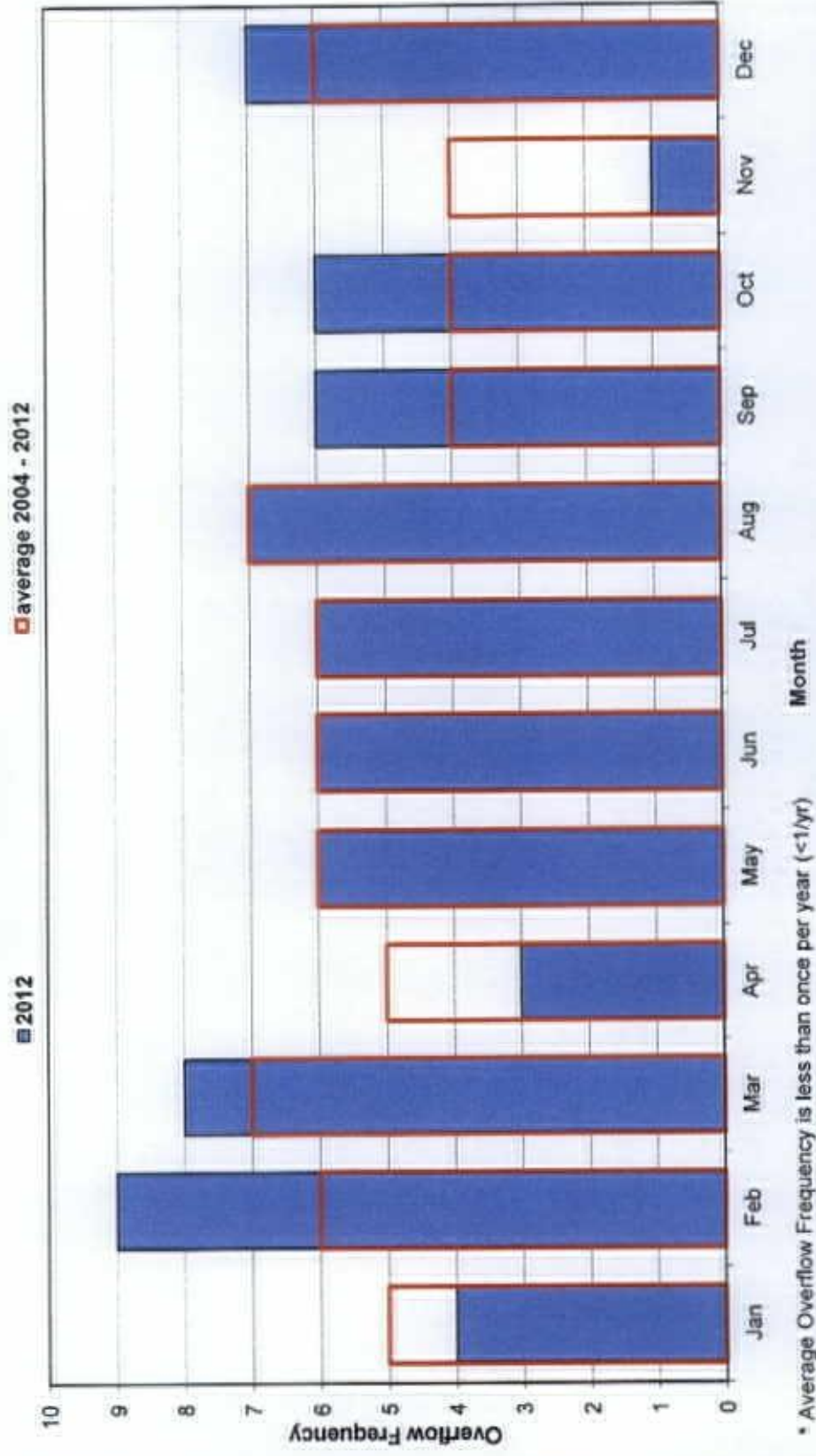
City of Richmond, Virginia  
 Overflow Frequency by Month

CSO05 - Peach Street 2004-2012



City of Richmond, Virginia  
Overflow Frequency by Month

CSO06 - Shockoe 2004-2012



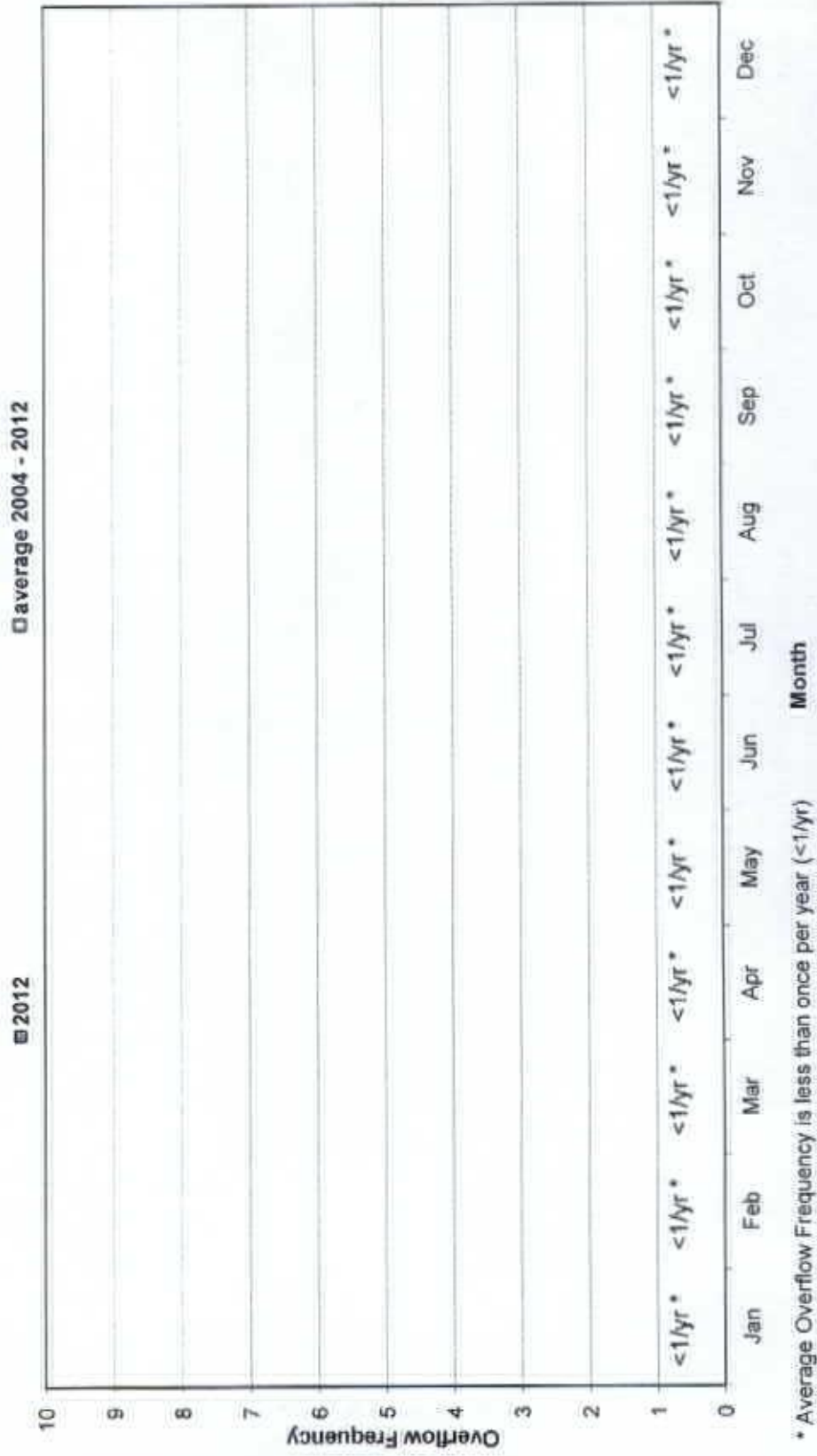
City of Richmond, Virginia  
Overflow Frequency by Month

CSO07 - Byrd 2004-2012



City of Richmond, Virginia  
 Overflow Frequency by Month

CSO08 - 6th Street 2004-2012

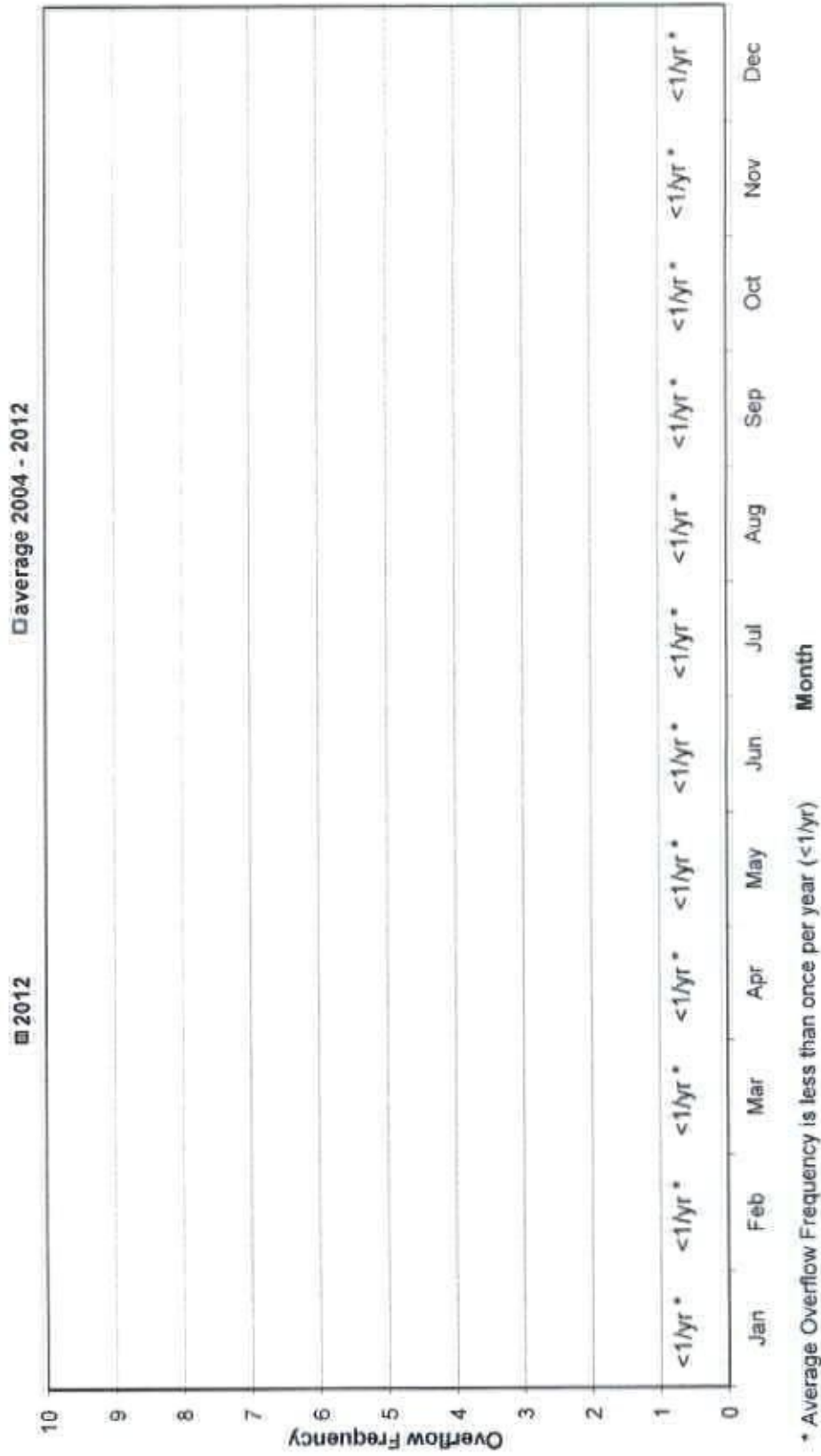


\* Average Overflow Frequency is less than once per year (<1/yr)



City of Richmond, Virginia  
Overflow Frequency by Month

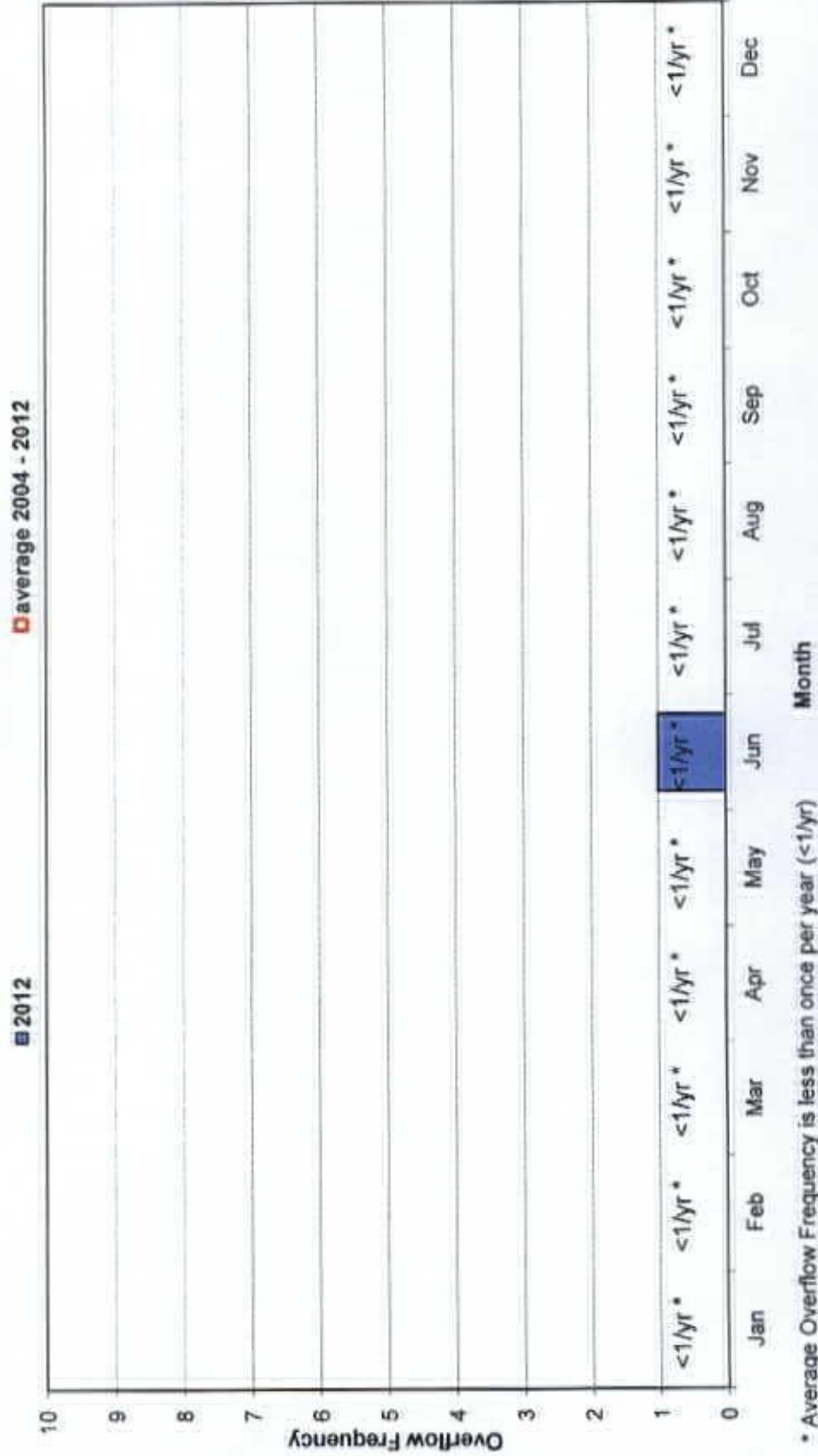
CSO09 - 7th Street 2004-2012



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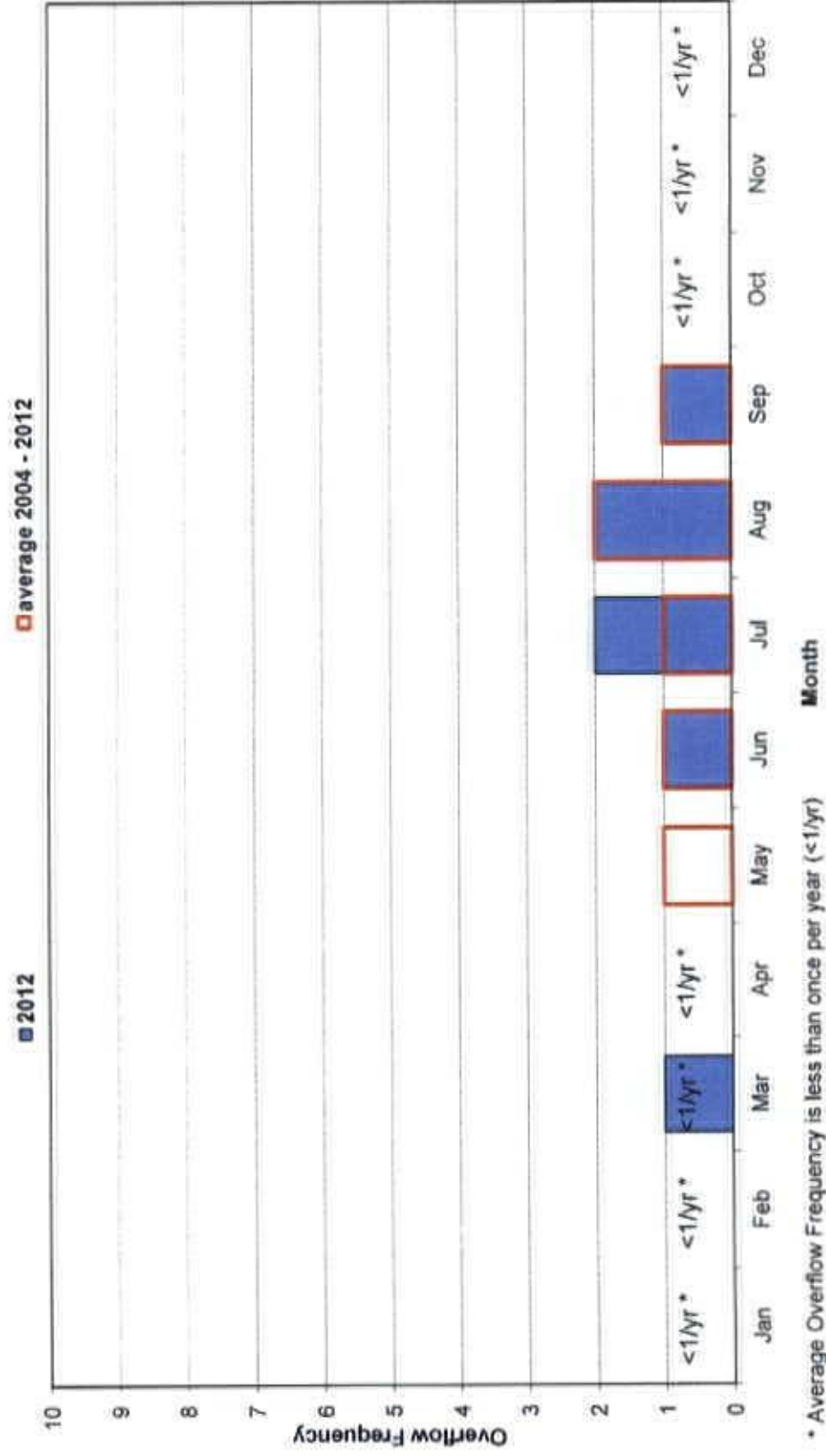
City of Richmond, Virginia  
Overflow Frequency by Month

CSO10 - Gambles Hill 2004-2012



City of Richmond, Virginia  
 Overflow Frequency by Month

CSO11 - Park Hydro 2004-2012

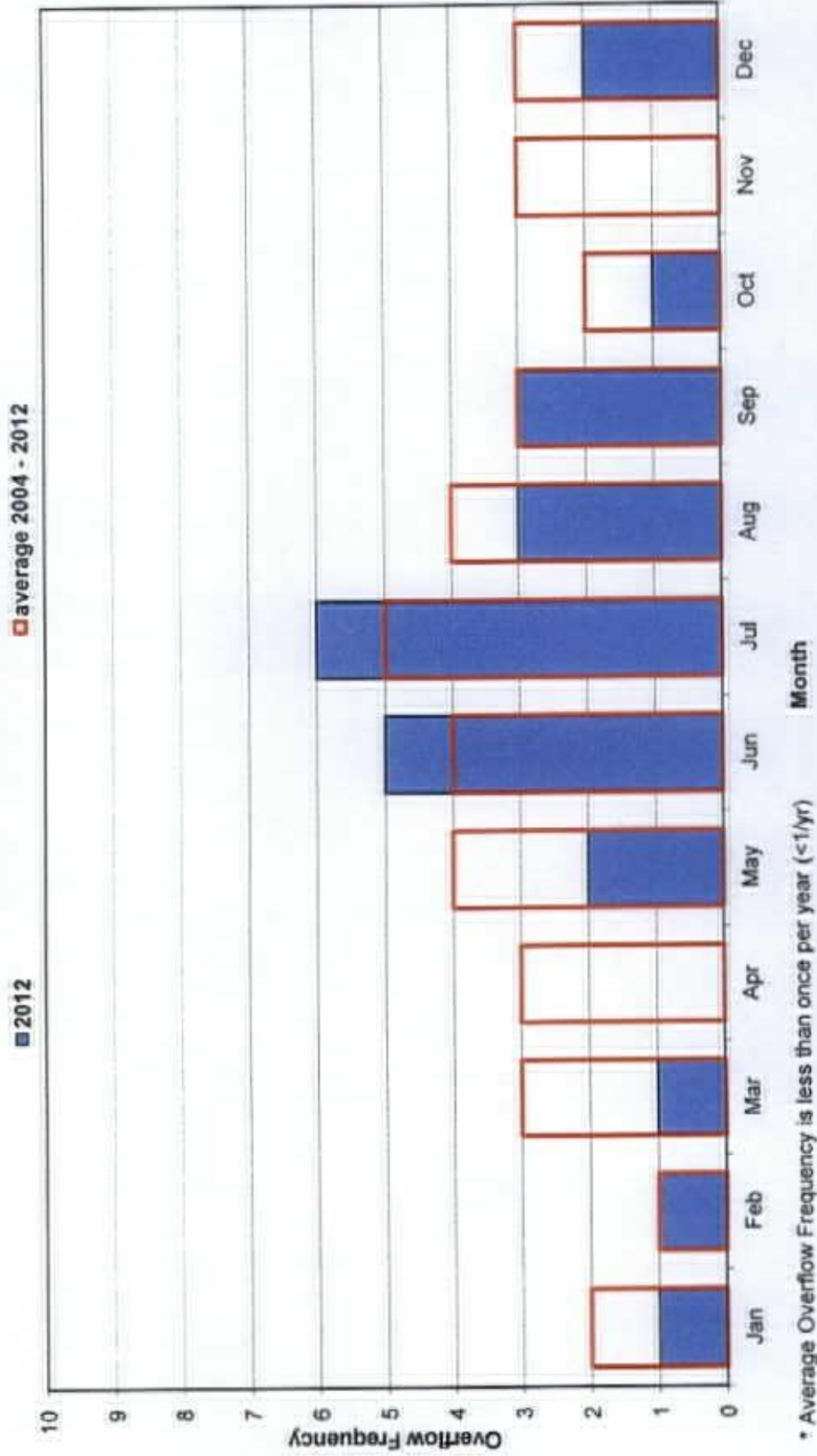


\* Average Overflow Frequency is less than once per year (<1/yr)



City of Richmond, Virginia  
 Overflow Frequency by Month

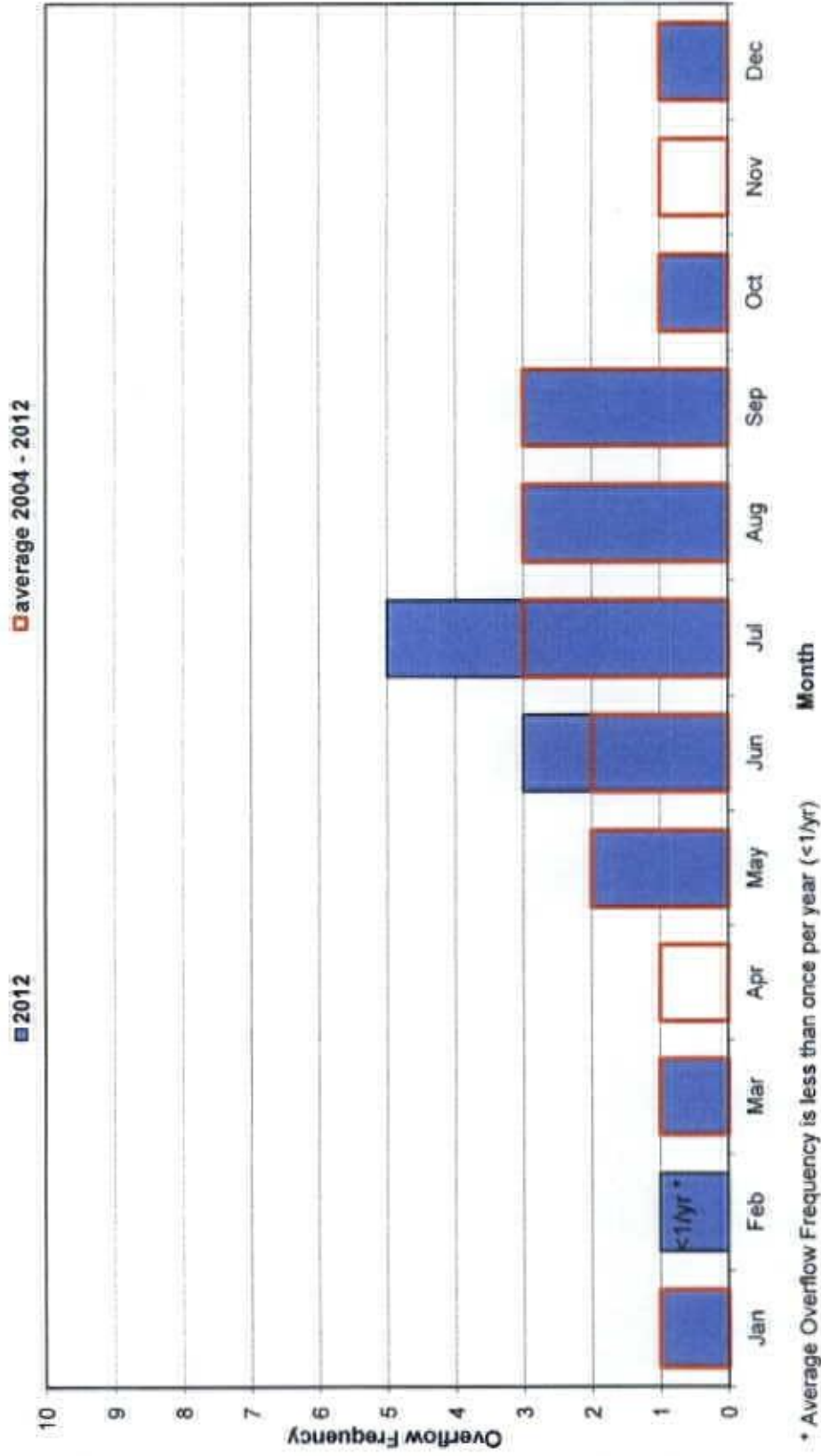
CSO12 - Hilton Street 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

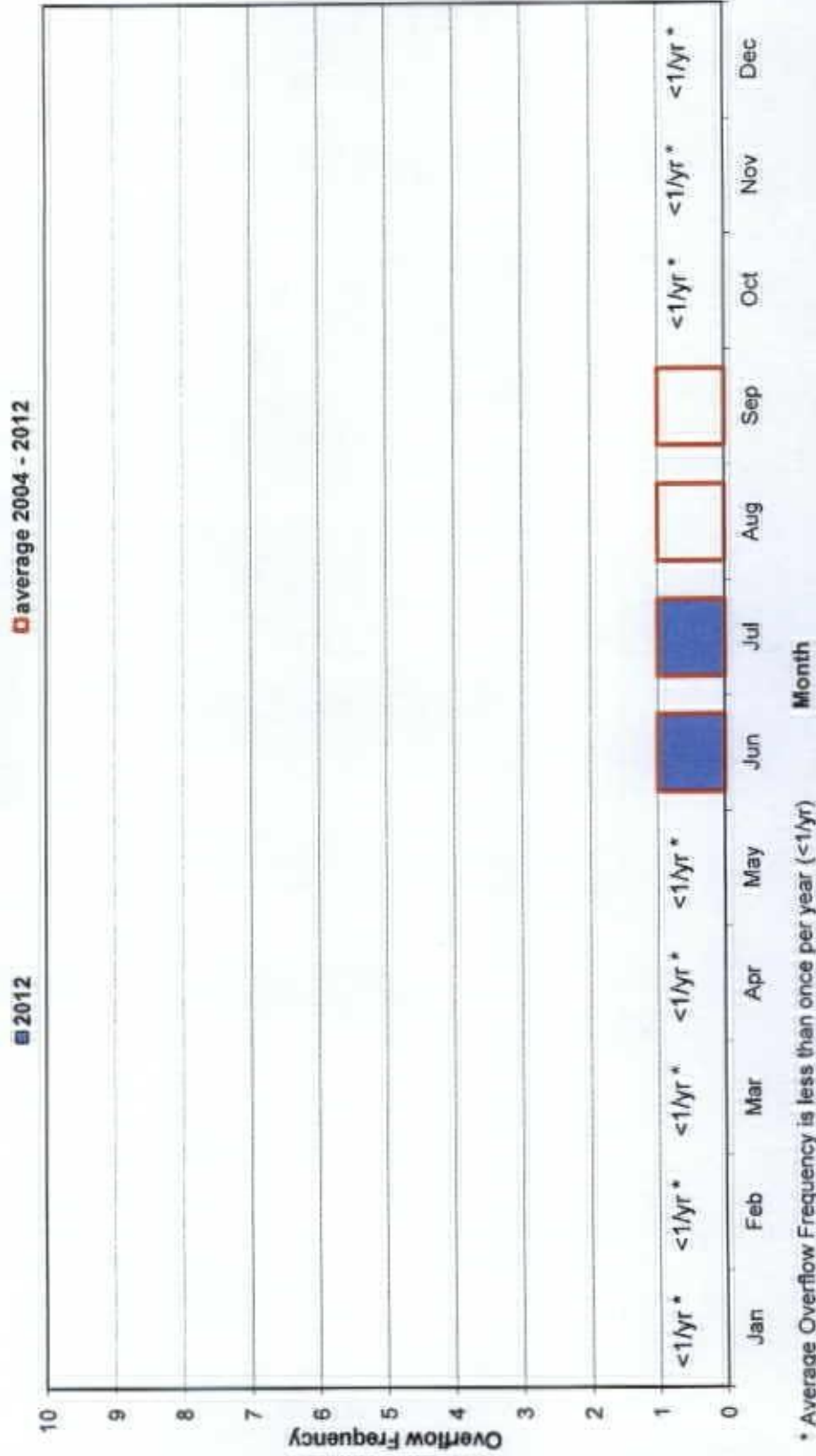
City of Richmond, Virginia  
Overflow Frequency by Month

CSO14 - Stockton 2004-2012



City of Richmond, Virginia  
 Overflow Frequency by Month

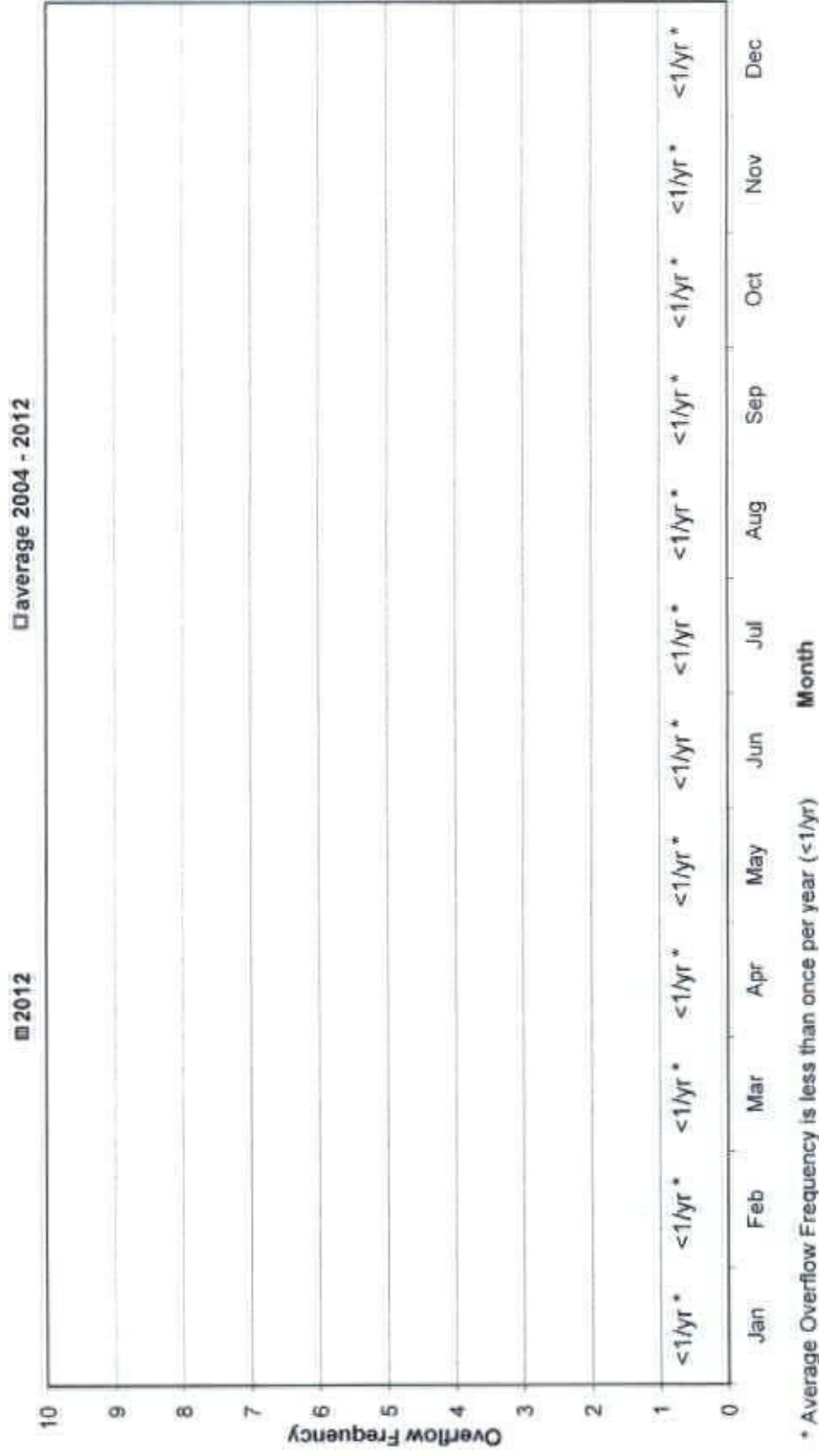
CSO15 - Canoe Run 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
 Overflow Frequency by Month

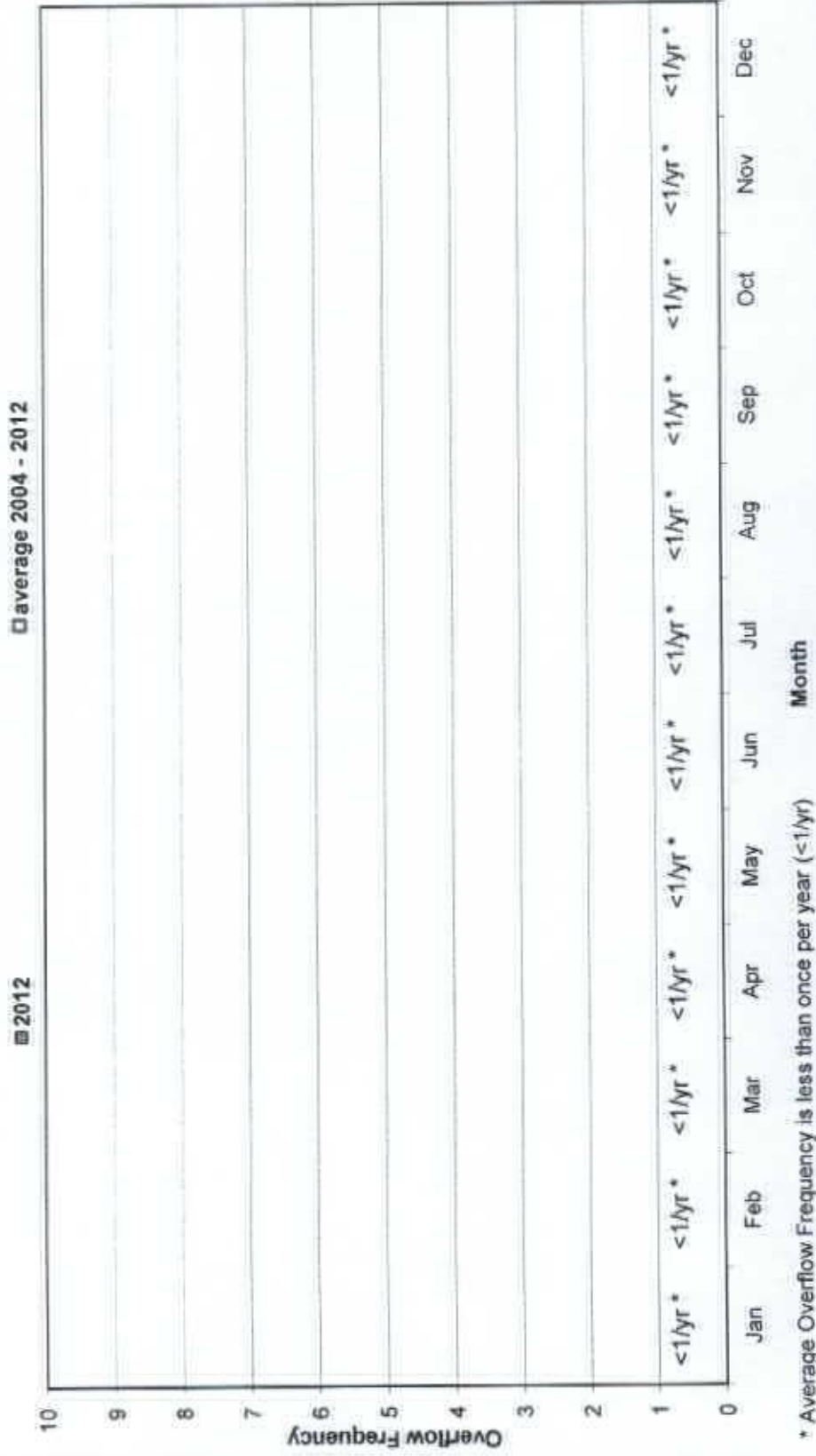
CSO16 - Woodland 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
 Overflow Frequency by Month

CSO17 - Reedy Creek 2004-2012

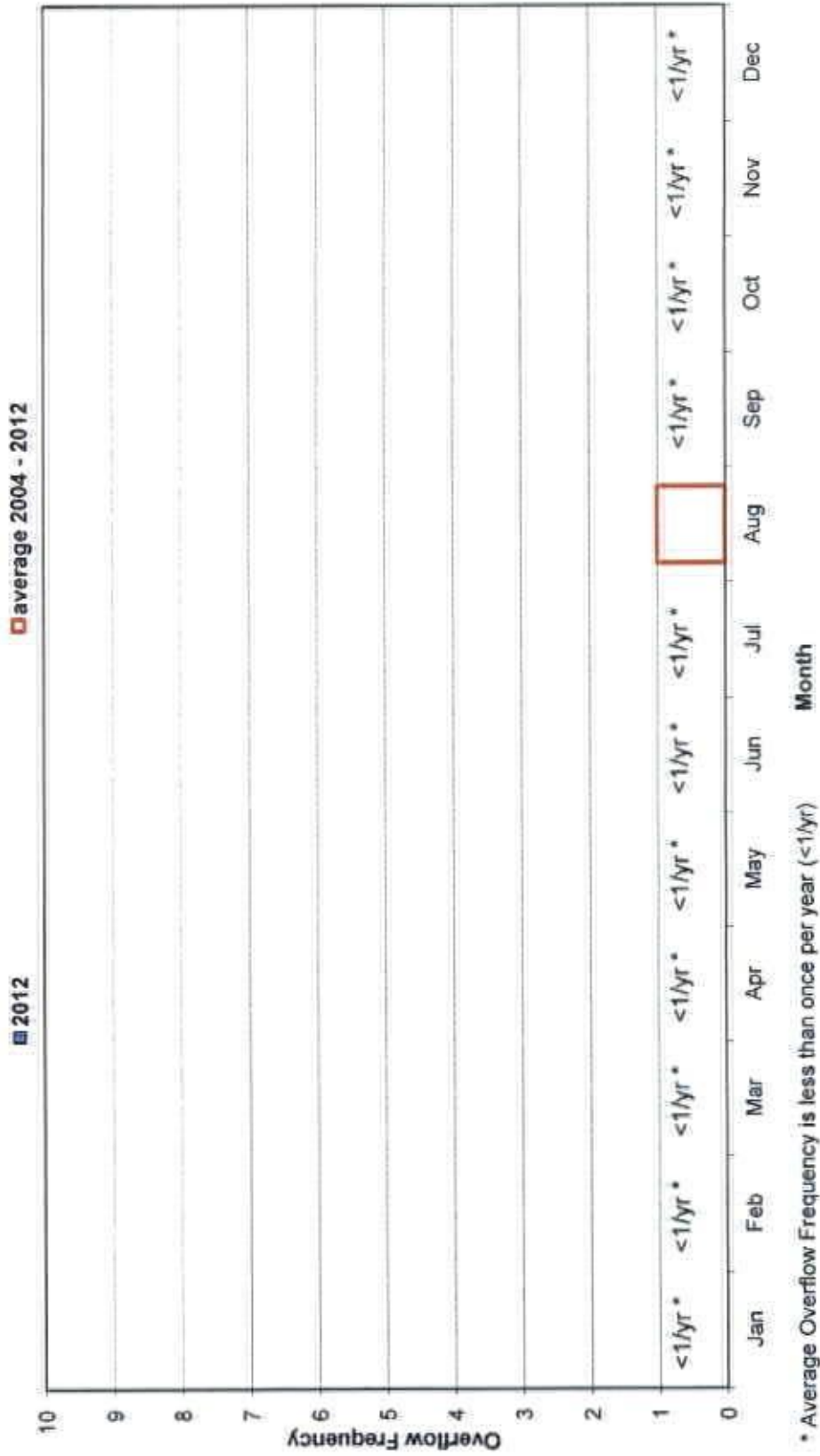


\* Average Overflow Frequency is less than once per year (<1/yr)



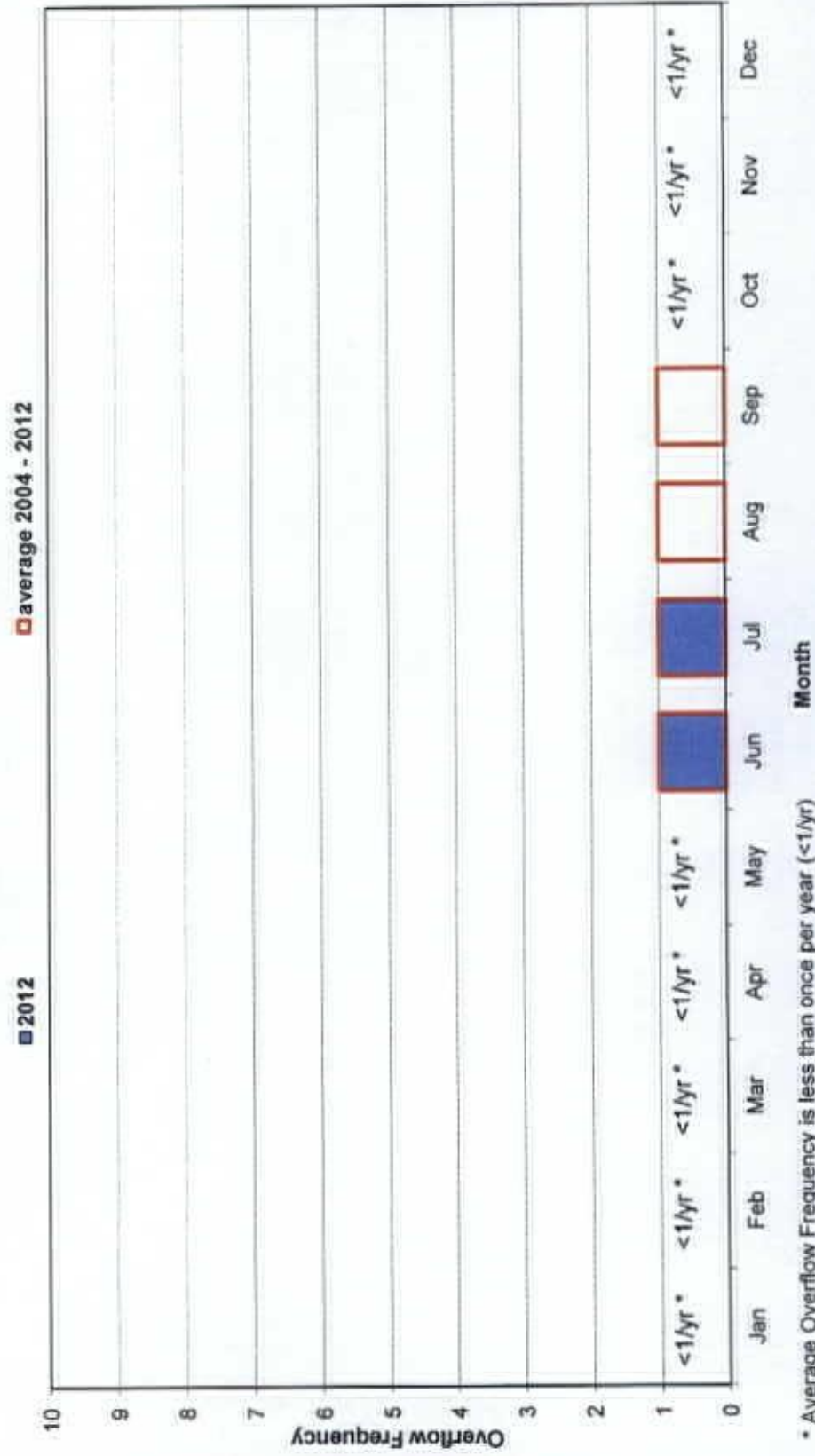
City of Richmond, Virginia  
Overflow Frequency by Month

CSO18 - 42nd Street 2004-2012



City of Richmond, Virginia  
Overflow Frequency by Month

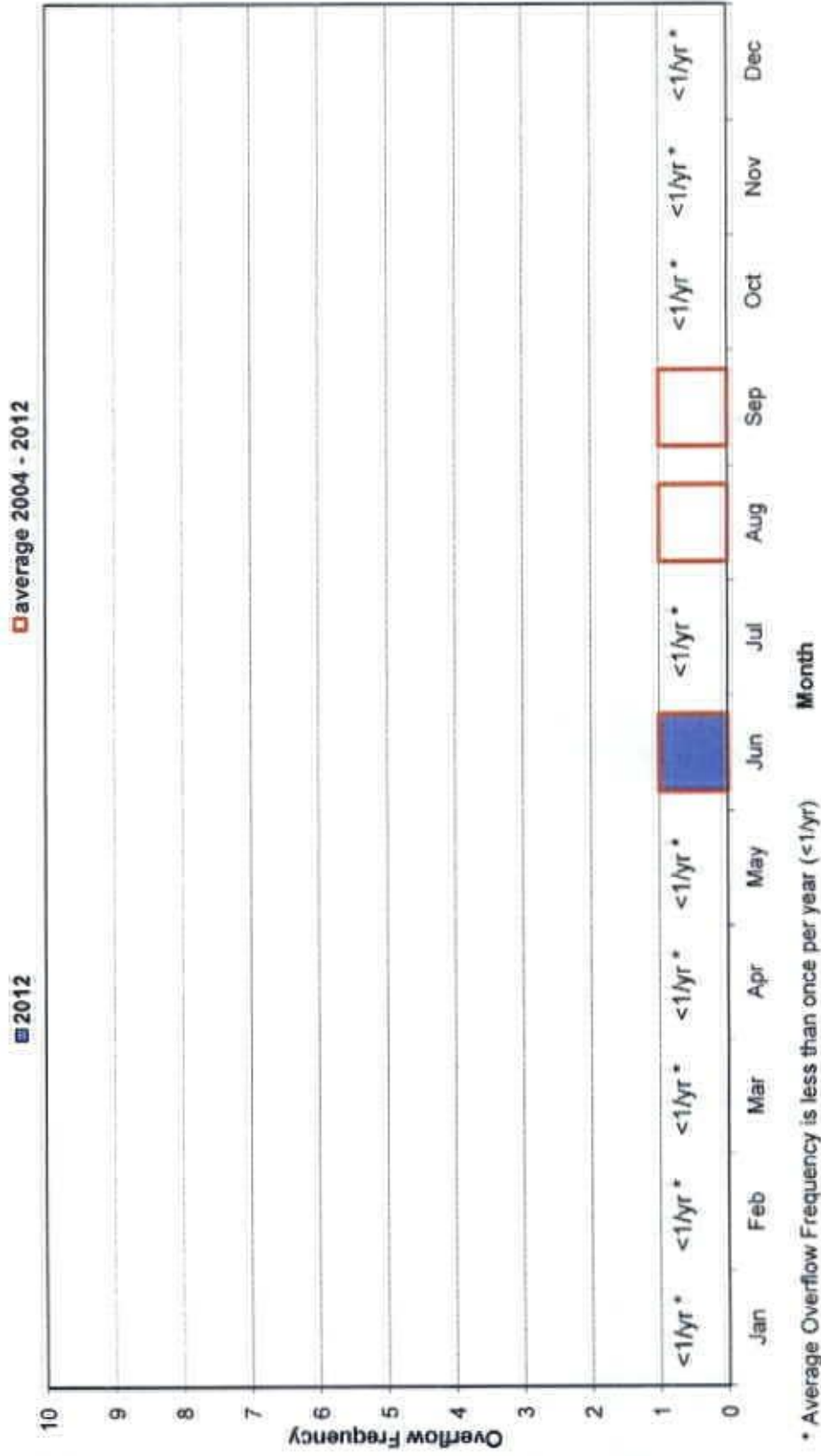
CSO19 - Hampton 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
 Overflow Frequency by Month

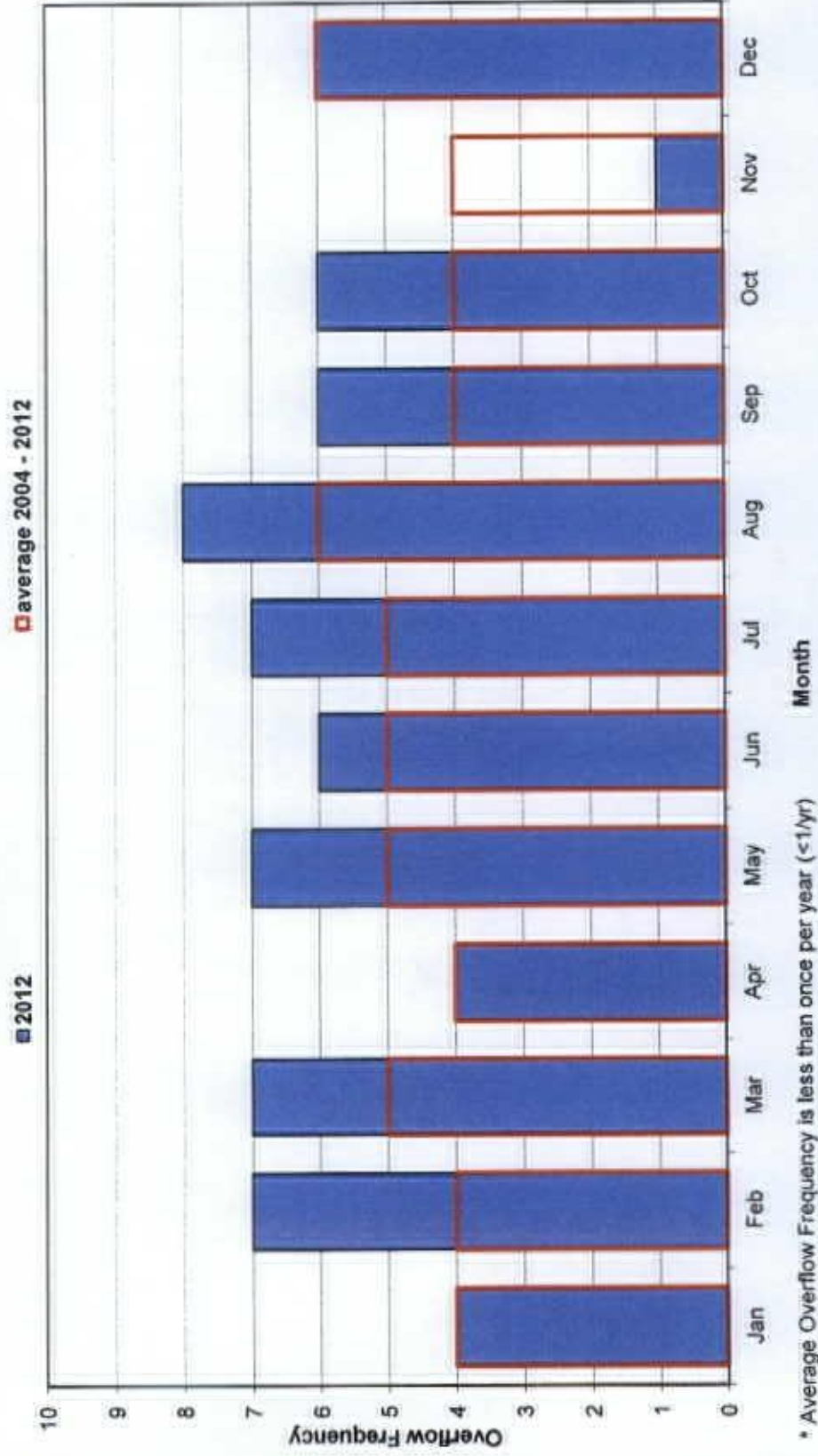
CSO20 - Mc Cloy 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)



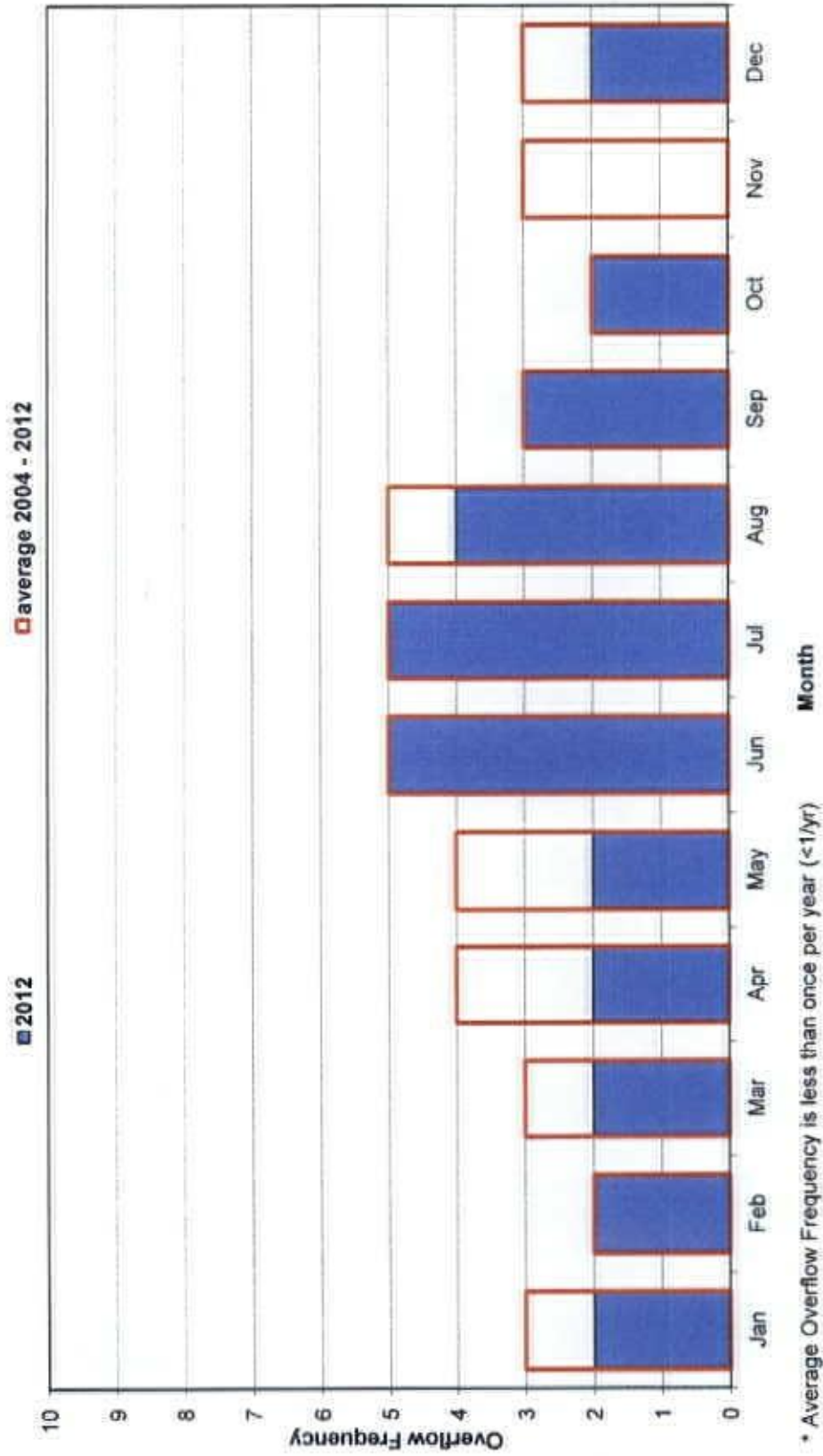
City of Richmond, Virginia  
 Overflow Frequency by Month  
CSO21 - Gordon Ave 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
Overflow Frequency by Month

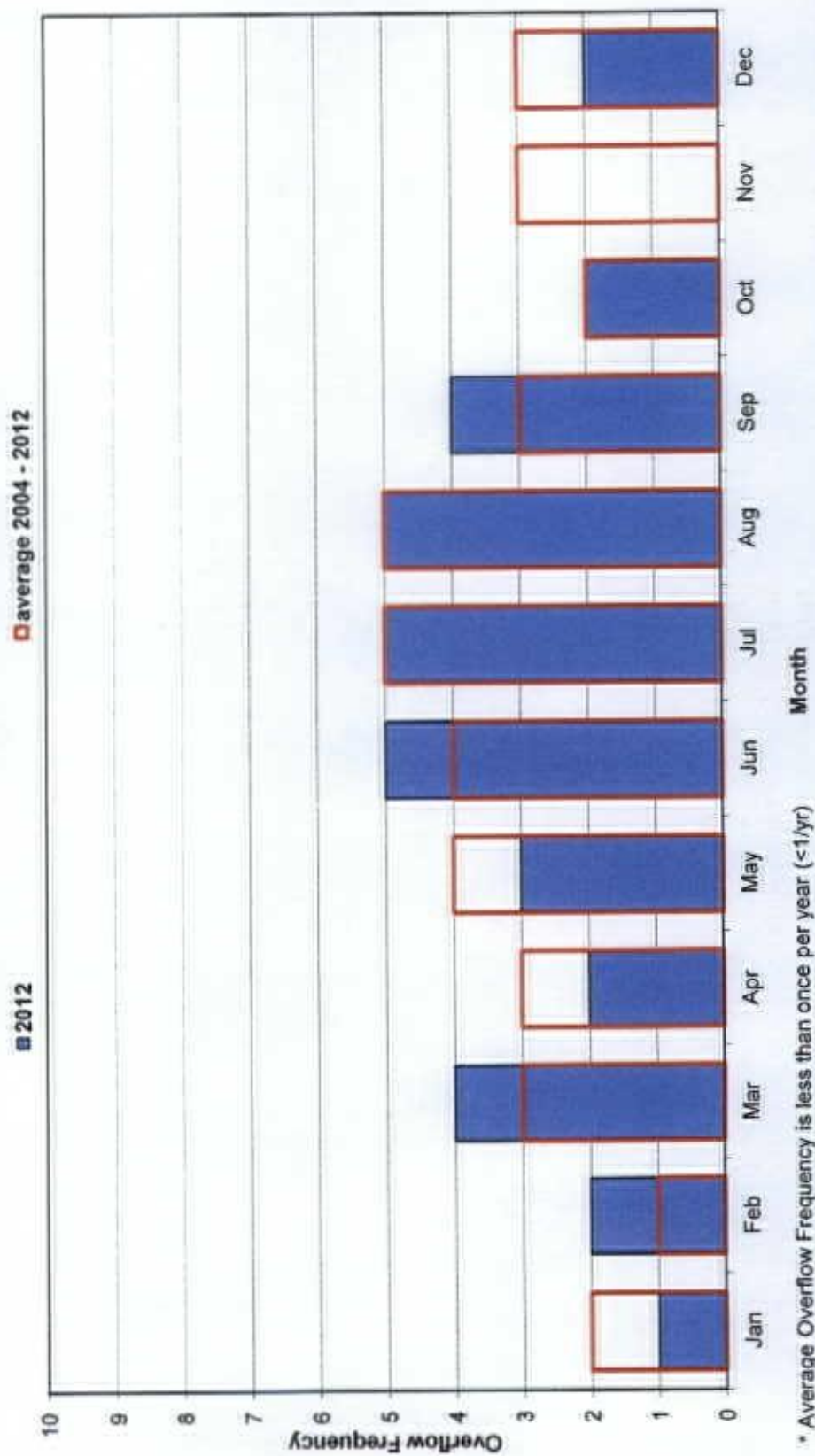
CSO24 - Gillies & Varina 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
 Overflow Frequency by Month

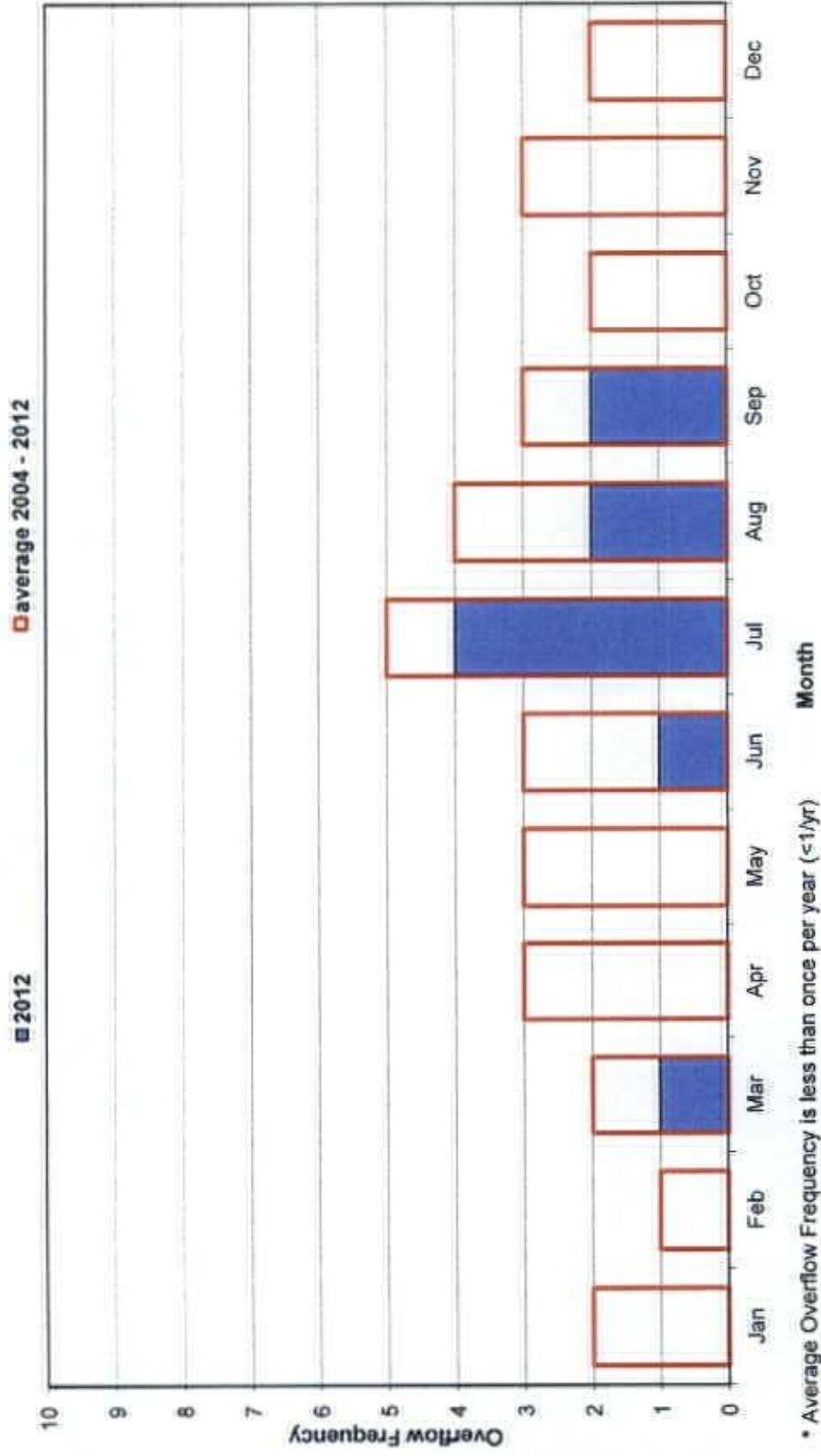
CSO25 - Briel & Gillies Cr 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
 Overflow Frequency by Month

**CSO26 - Gov't Road & NSRR 2004-2012**

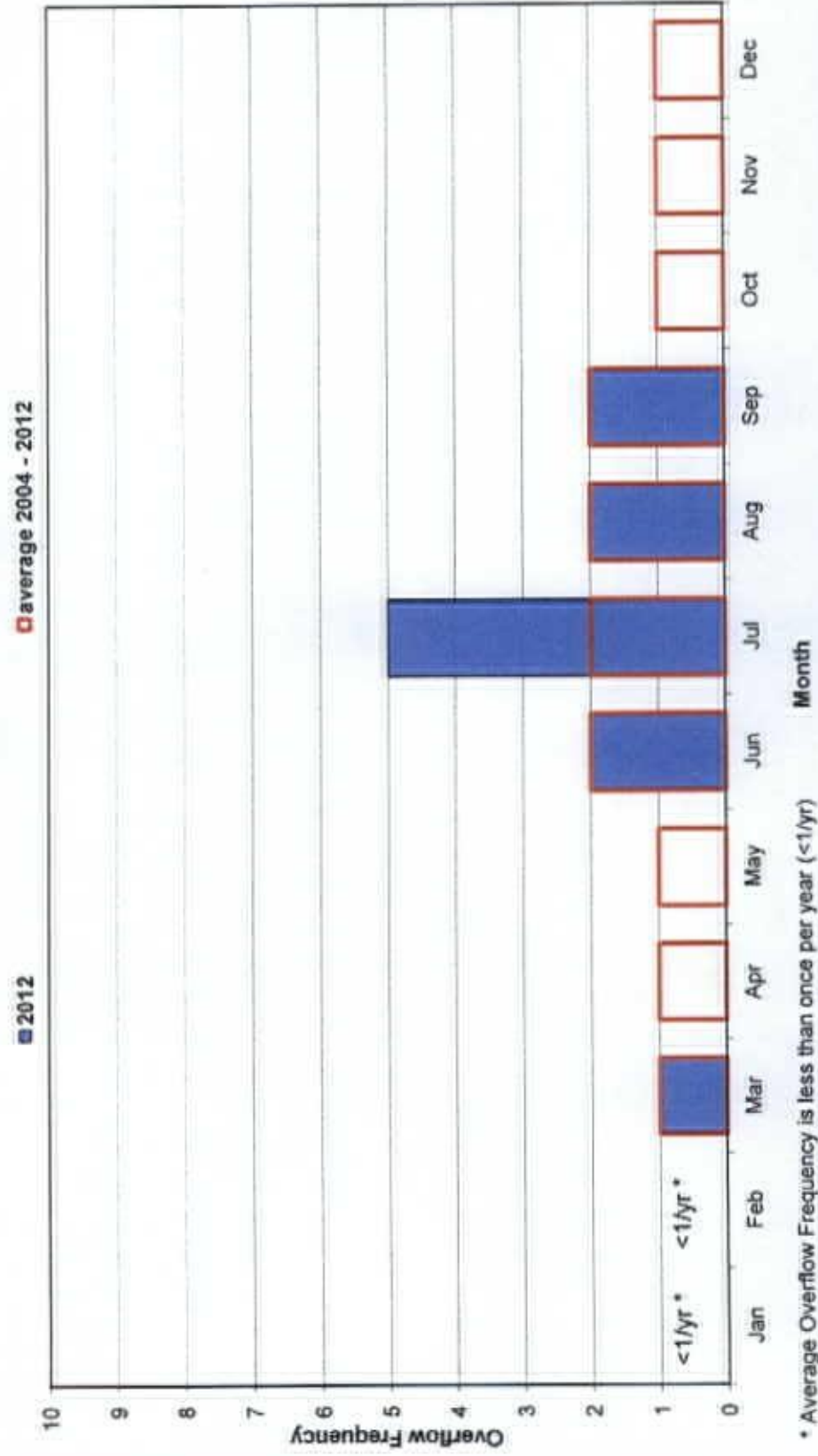


\* Average Overflow Frequency is less than once per year (<1/yr)



City of Richmond, Virginia  
 Overflow Frequency by Month

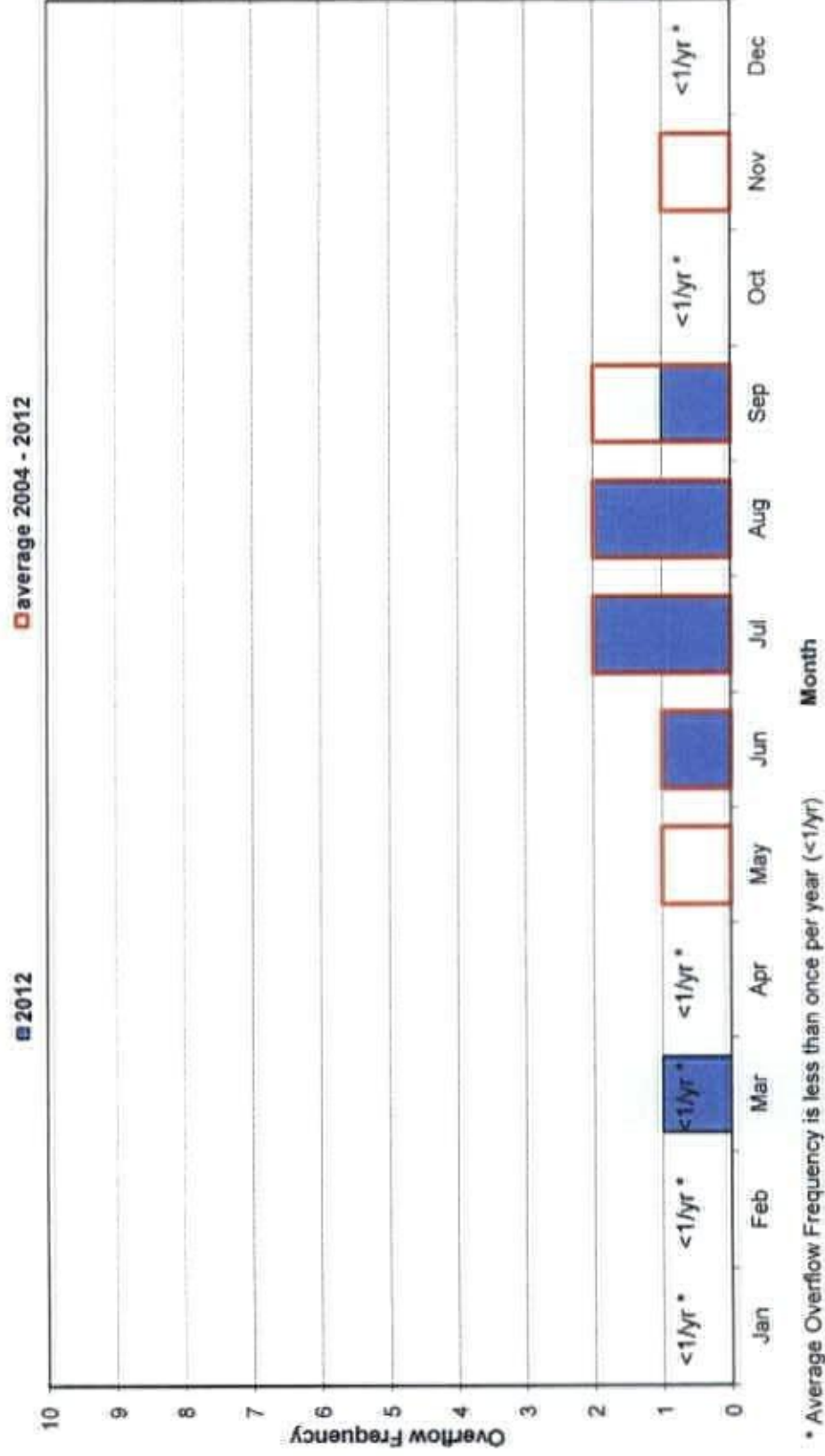
CSO28 - W'Burg Road 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
Overflow Frequency by Month

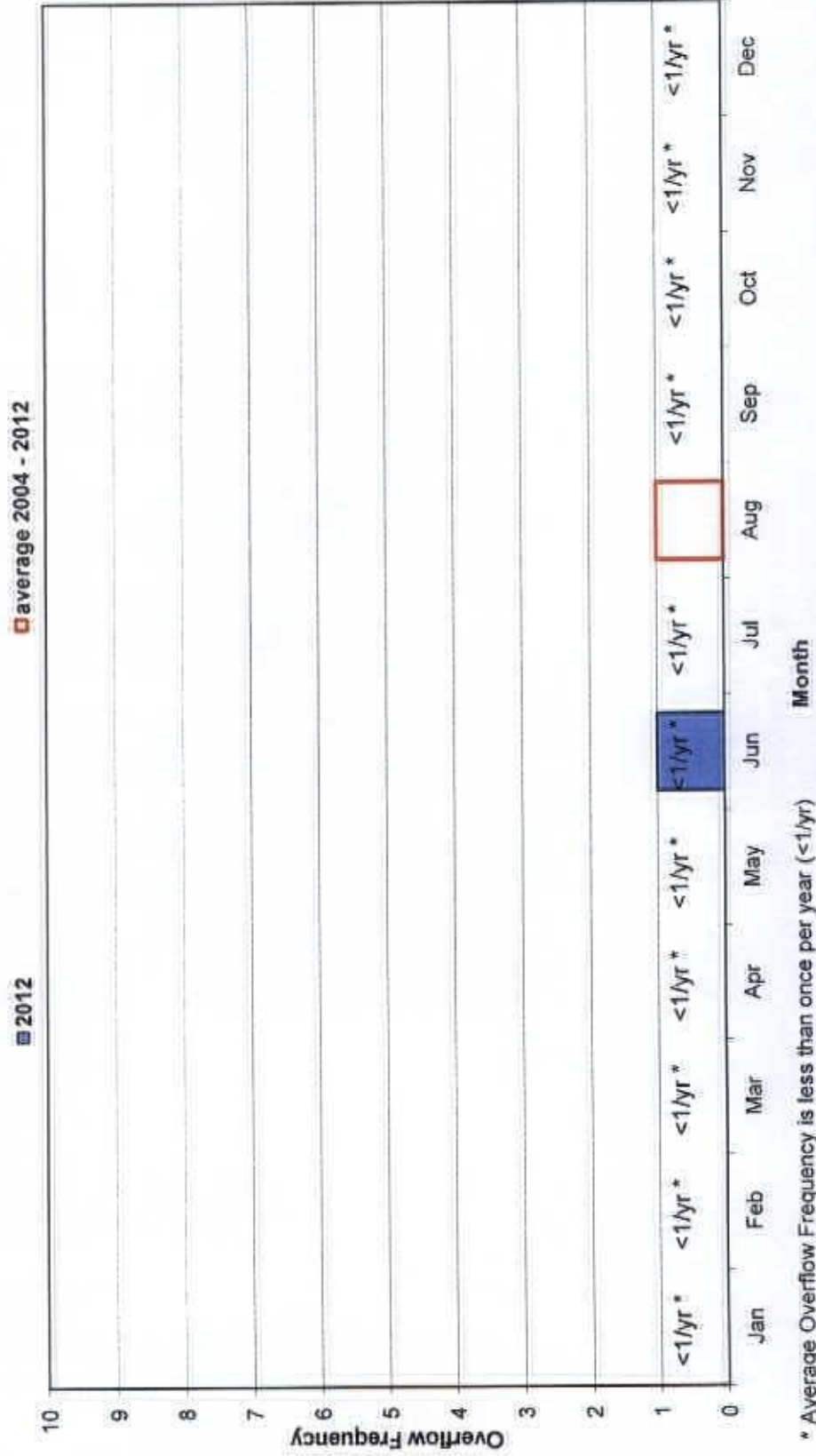
CSO31 - Oakwood Cem 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
 Overflow Frequency by Month

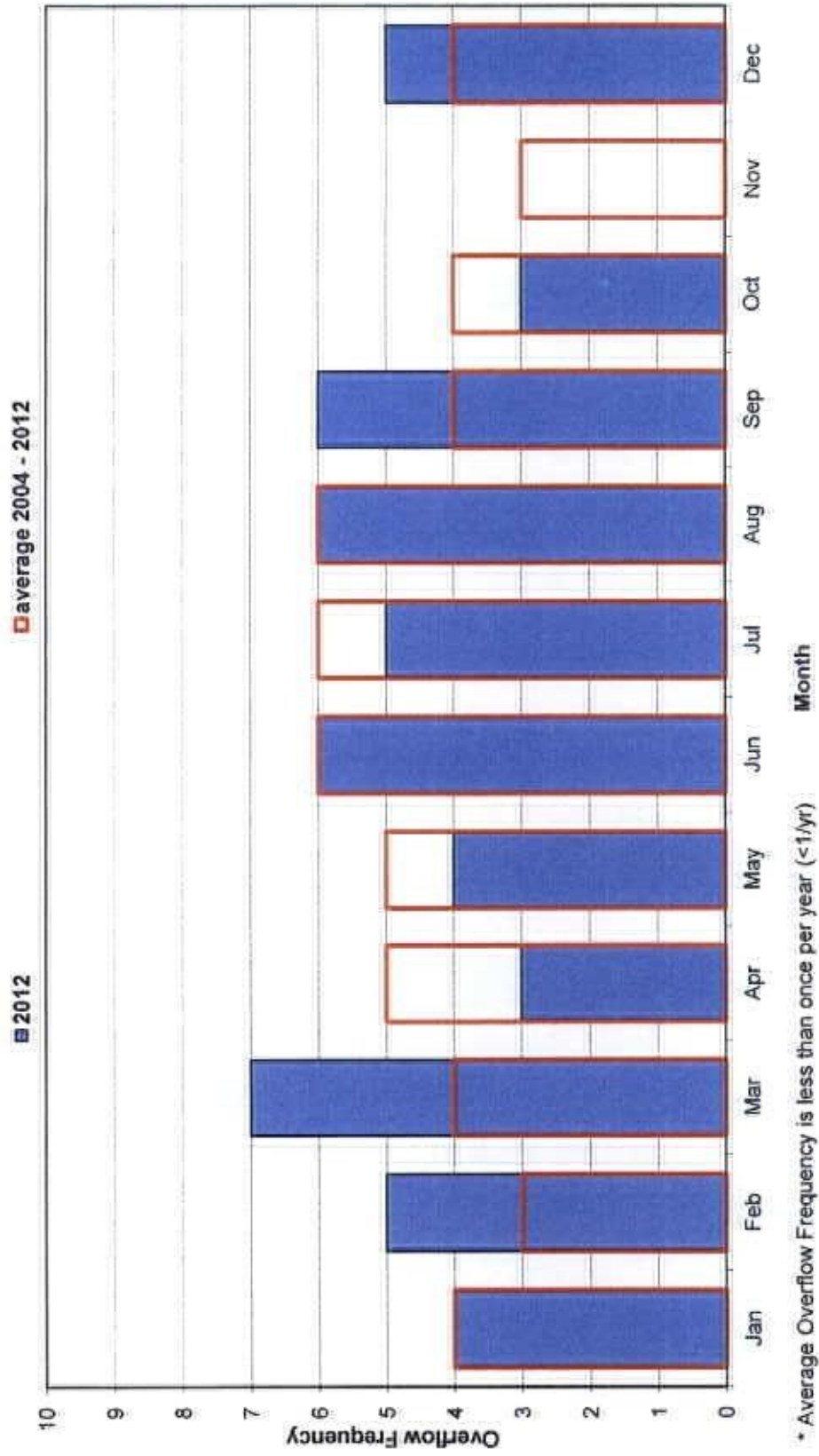
CSO33 - Shields Lake 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
Overflow Frequency by Month

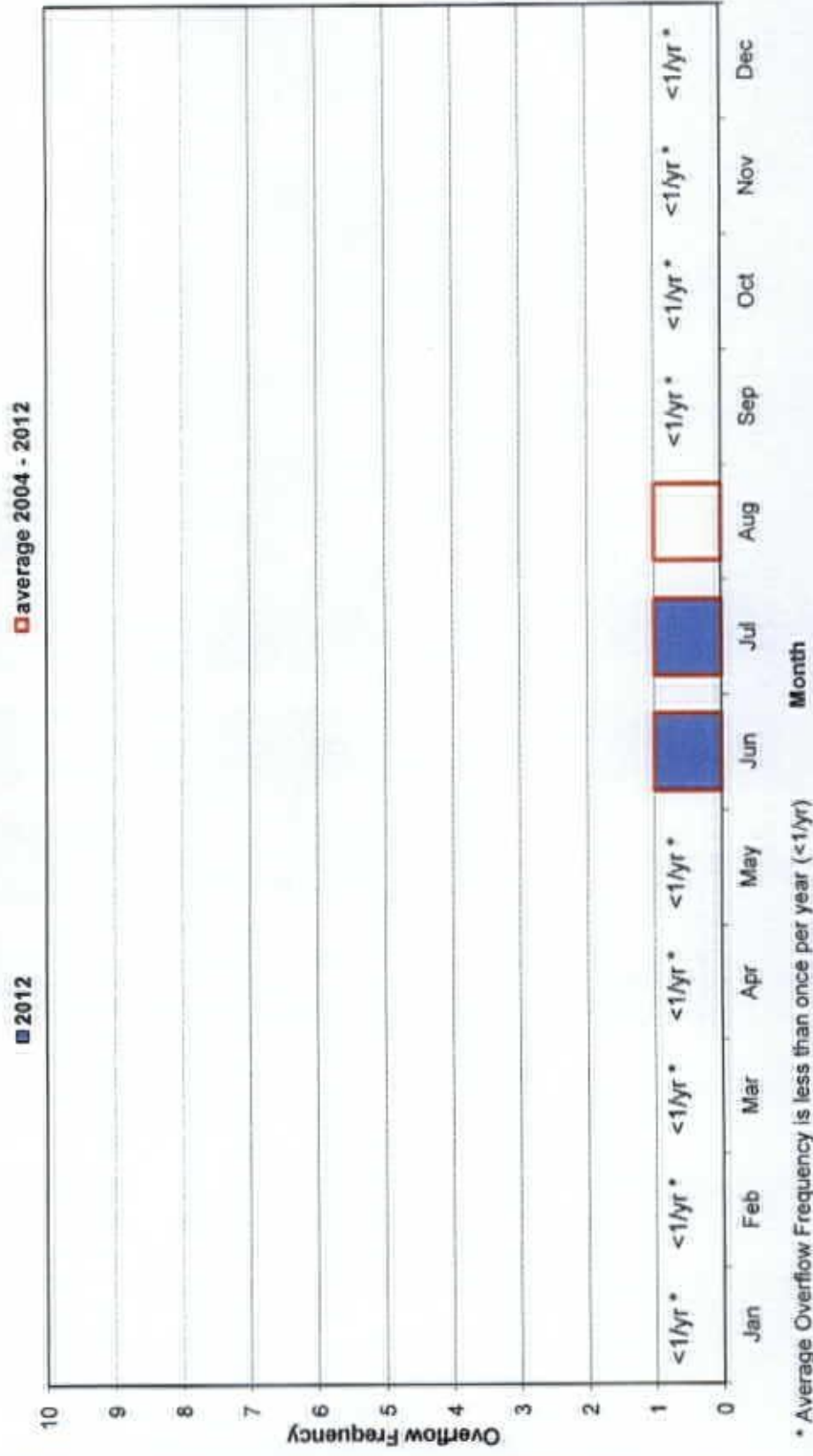
CSO34 - 19th & Dock 2004-2012





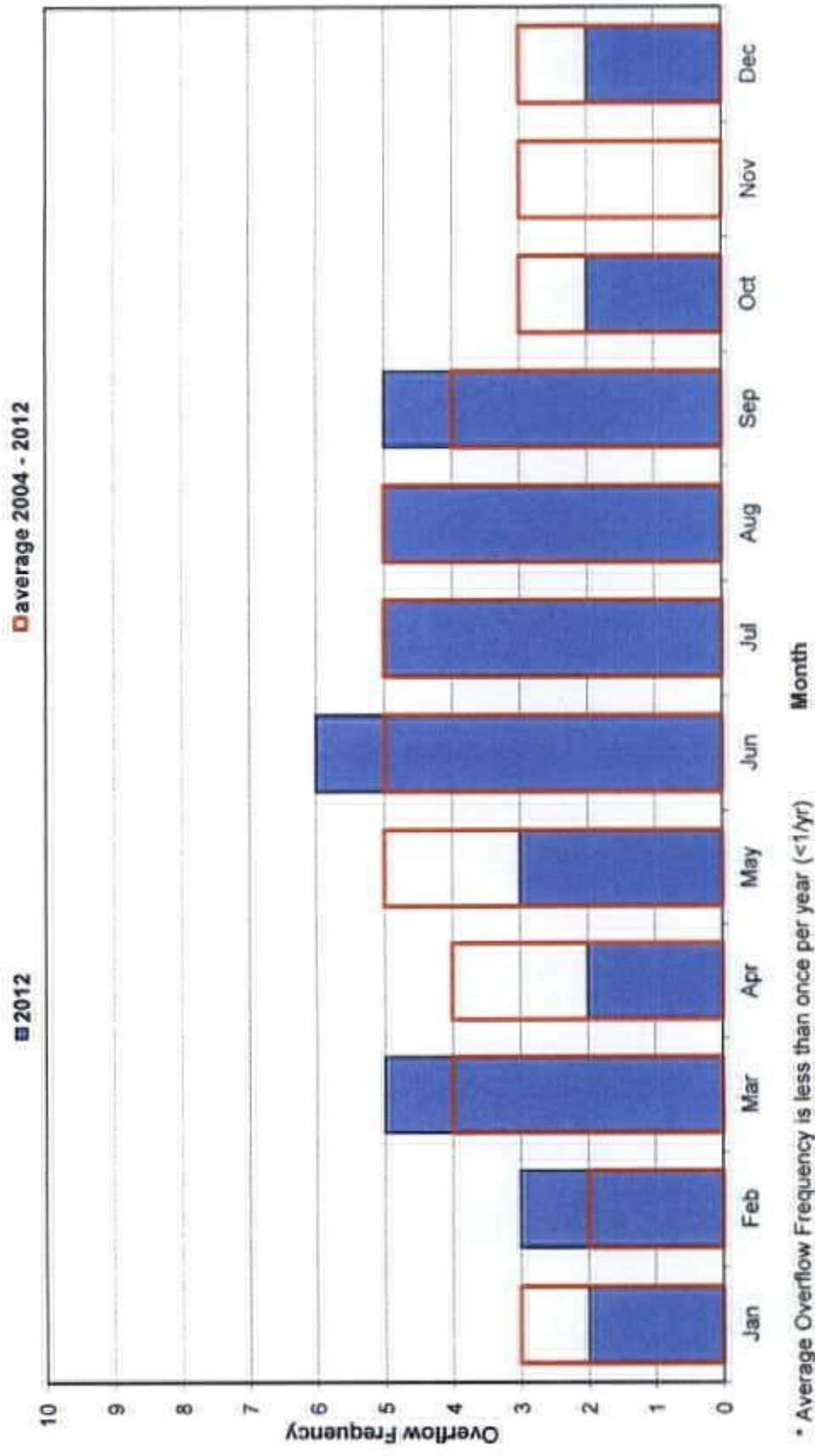
City of Richmond, Virginia  
 Overflow Frequency by Month

CSO35 - 29th & Dock 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

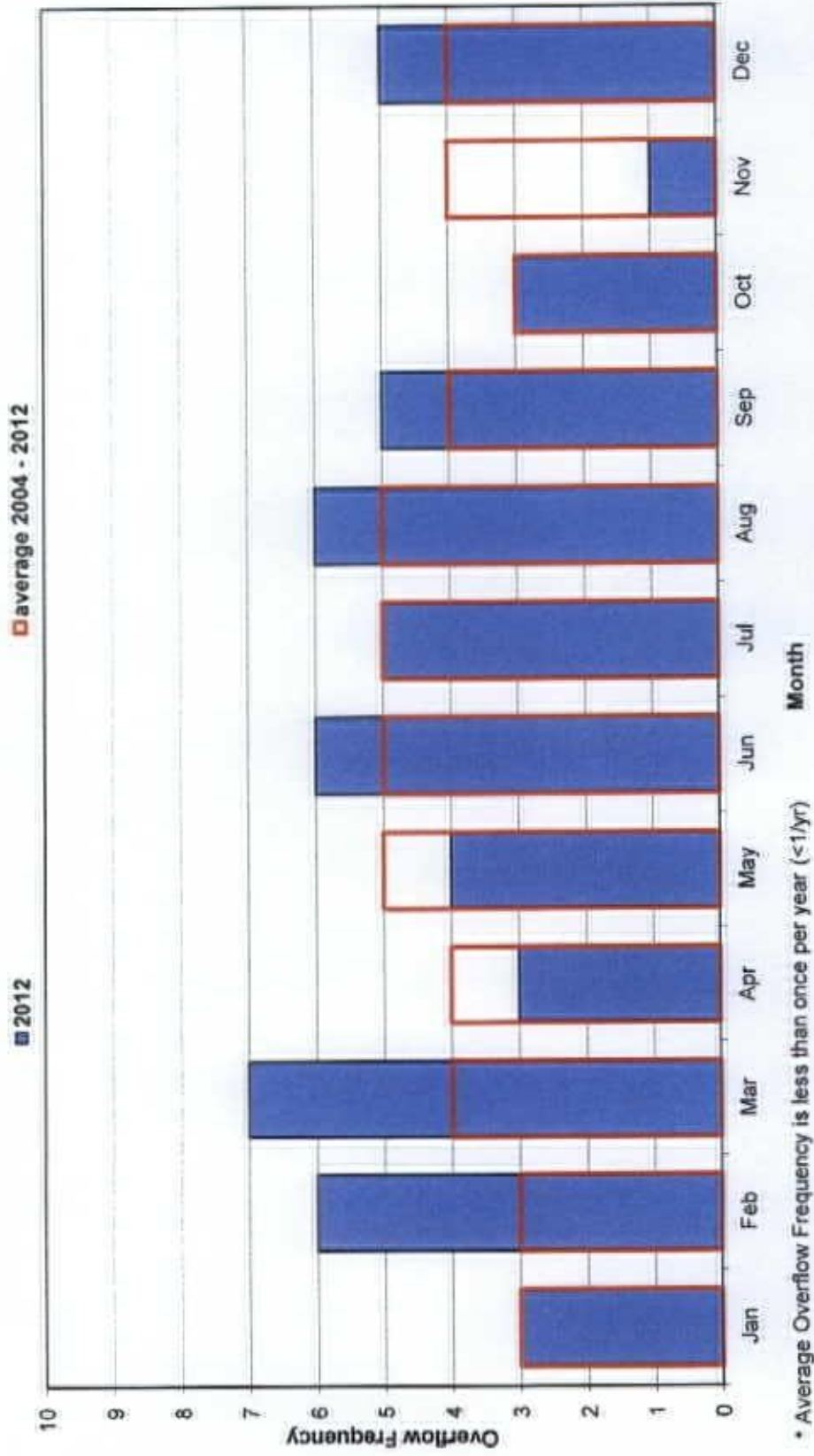
City of Richmond, Virginia  
 Overflow Frequency by Month  
CSO39 - Gov't Road & Gillies 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)

City of Richmond, Virginia  
 Overflow Frequency by Month

CSO40 - Diff User 2004-2012



\* Average Overflow Frequency is less than once per year (<1/yr)